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## CALENDAR

1933

- Sept. 18. Monday—Examinations begin for admission to the first year of all departments of Cornell University at Ithaca, N. Y. Examinations are held at the Medical College, New York City, for the convenience of residents.
- Sept. 20. Wednesday—Examinations begin for conditioned medical students.
- Sept. 25. Monday—Registration Day.\*
- Sept. 26. Tuesday—Classes begin. First quarter and first trimester begin.\*\*
- Nov. 7. Tuesday—Election Day. Legal holiday.
- Nov. 21. Tuesday—First quarter ends.
- Nov. 22. Wednesday—Second quarter begins.
- Nov. 29. Wednesday, 6 P. M.—Thanksgiving recess begins.
- Dec. 4. Monday, 9 A. M.—Thanksgiving recess ends.
- Dec. 22. Friday, 6 P. M.—Christmas recess begins. First trimester ends.

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- Jan. 3. Wednesday, 9 A. M.—Christmas recess ends. Second trimester begins.
- Jan. 31. Wednesday—Second quarter ends.
- Feb. 1. Thursday—Third quarter begins.
- Feb. 22. Thursday—Washington's Birthday. Legal holiday.
- March 10. Saturday—Second trimester ends.
- March 12. Monday—Third trimester begins.
- March 29. Thursday, 6 P. M.—Third quarter ends. Easter recess begins.
- April 2. Monday, 9 A. M.—Fourth quarter begins. Easter recess ends.
- May 26. Saturday—Third trimester and fourth quarter end.
- May 28—
- June 2. Final examinations.
- May 30. Wednesday—Memorial Day. Legal holiday.
- June 7. Thursday, 4 P. M.—Commencement.

\*All students must register in person at the office of the Dean on or before September 25. No student will be admitted after Registration Day without special permission of the Associate Dean. Upon registration all fees must be paid at the business office.

\*\*The first year of the medical course is divided into trimesters; the second, third, and fourth years into quarters.

## BOARD OF TRUSTEES

The President of the University . . . . .		Ithaca
The Governor of New York State . . . . .		Albany
The Lieutenant-Governor of New York State . . . . .		Albany
The Speaker of the Assembly . . . . .		Albany
The State Commissioner of Education . . . . .	} <i>Ex-Officio</i>	Albany
The State Commissioner of Agriculture . . . . .		Albany
The President of the State Agricultural Society . . . . .		Albany
The Librarian of the Cornell Library . . . . .		Ithaca
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HENRY R. ICKELHEIMER, B.L. . . . .	(B)	New York
CHARLES M. SCHWAB . . . . .	(B)	New York
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MAXWELL M. UPSON, A.B., M.E., Eng.D. . . . .	(A)	New York
HORACE WHITE, A.B., LL.B. . . . .	(G)	Syracuse
FRANK H. HISCOCK, A.B., LL.D. . . . .	(B)	Syracuse
NICHOLAS H. NOYES, A.B. . . . .	(B)	Indianapolis, Ind.
J. DUPRATT WHITE, B.L. . . . .	(B)	New York
_____ . . . . .	(A)	
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STANTON GRIFFIS, A.B. . . . .	(G)	New York
ROBERT H. TREMAN, B.M.E. . . . .	(B)	Ithaca
MYNDERSE VAN CLEEF, B.S. . . . .	(B)	Ithaca
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MARY M. CRAWFORD, A.B., M.D. . . . .	(A)	New York
PETER G. TEN EYCK . . . . .	(G)	Albany
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BANCROFT GHERARDI, M.E., M.M.E. . . . .	(A)	New York
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LIBERTY HYDE BAILEY, M.S., LL.D. . . . .	Ithaca
GEORGE YOUNG, JR., B.Arch. . . . .	Ithaca
JULIAN P. BRETZ, Ph.D. . . . .	Ithaca

\*Term of office expires in 1934, the next group of six in 1935, etc. B, elected by the Board; A, elected by the Alumni; G, appointed by the Governor; Gr, elected by the State Grange.

## THE NEW YORK HOSPITAL-CORNELL MEDICAL COLLEGE ASSOCIATION

The Association was formed by an agreement between the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete cooperation of the medical, educational, and scientific activities of the two institutions.

The Association is operated under the supervision of a Joint Administrative Board, composed of three Governors of the New York Hospital, three representatives of the Trustees of Cornell University, and one other member elected by the appointed members.

The Joint Administrative Board is composed of the following members:

EDWARD W. SHELDON, <i>Chairman</i>	LIVINGSTON FARRAND
WILSON M. POWELL	J. DUPRATT WHITE
FRANK L. POLK	WALTER L. NILES
J. PIERPONT MORGAN	

## MEDICAL COLLEGE COUNCIL

The Council was established by action of the Trustees of Cornell University for the purpose of making recommendations to the Board of Trustees or the Executive Committee in relation to the business management of the medical college. It is composed of the President of the University, the Director of the Medical College, three members of the Board of Trustees elected by the Trustees, and two members of the Medical Faculty elected by the Faculty.

The Council at present consists of the following members:

LIVINGSTON FARRAND, President of Cornell University, *Chairman ex officio*.

G. CANBY ROBINSON, Director of the New York Hospital-Cornell Medical College Association.

H. H. WESTINGHOUSE,	} of the Board of Trustees.
MYRON C. TAYLOR,	
WALTER C. TEAGLE,	

WILLIAM J. ELSER,	} of the Faculty.
OSCAR M. SCHLOSS	
WALLACE LUND, <i>Secretary</i> .	

## OFFICERS OF ADMINISTRATION

LIVINGSTON FARRAND, *President.*

G. CANBY ROBINSON, *Director.*

WILLIAM S. LADD, *Associate Dean.*

J. S. FERGUSON, *Secretary of the Faculty.*

WALLACE LUND, *Secretary of Council and Business Manager*

JOSEPHINE G. NICHOLS, *Librarian.*



# THE FACULTY AND TEACHING STAFF

## THE FACULTY

LIVINGSTON FARRAND, Ph.D., M.D., President of Cornell University.

A.B. 1888, A.M. 1891, Princeton; M.D. 1891, Columbia; Ph.D. 1924, Rensselaer;  
L.H.D. 1922, Hobart; LL.D. 1914 Colorado College and Denver, 1917 Michigan,  
1919 Colorado, 1922 Union, Princeton and Colgate, 1923 Yale, 1925 Pennsylvania  
and Dartmouth, 1927 Toronto, 1929 Columbia.

### PROFESSORS EMERITI

FREDERIC S. DENNIS, M.D.	Professor of Clinical Surgery, <i>Emeritus</i>
J. CLIFTON EDGAR, M.D.	Professor of Obstetrics, <i>Emeritus</i>
GEORGE WOOLSEY, M.D.	Professor of Clinical Surgery, <i>Emeritus</i>
IRVING S. HAYNES, M.D.	Professor of Clinical Surgery, <i>Emeritus</i>
JOHN ROGERS, A.B., M.D.	Professor of Clinical Surgery, <i>Emeritus</i>
FREDERICK WHITING, M.D.	Professor of Clinical Surgery, Department of Otology, <i>Emeritus</i>
CHARLES L. GIBSON, M.D.	Professor of Surgery, <i>Emeritus</i>
CHARLES L. DANA, M.D.	Professor of Clinical Medicine, Department of Neurology, <i>Emeritus</i>
WILLIAM L. RUSSELL, M.D.	Professor of Psychiatry, <i>Emeritus</i>

### PROFESSORS

JAMES EWING, M.D., Professor of Oncology.

Director of Cancer Research, Memorial Hospital.

Consulting Pathologist, New York Hospital.

A.B. 1888, A.M. 1891, Sc.D. 1923, Amherst; M.D. 1891, Columbia; Sc.D. 1911,  
Pittsburgh.

ROBERT A. HATCHER, M.D., Professor of Pharmacology.

Ph.G. 1889, Philadelphia College of Pharmacy; M.D. 1898, Tulane; Sc.D. 1929,  
Columbia.

CHARLES R. STOCKARD, Ph.D., M.D., Professor of Anatomy.

Director, Experimental Morphology Station.

B.S. 1899, M.S. 1901, Mississippi Agr. and Mech. College; Ph.D. 1906, Columbia;  
Sc.D. 1920, Cincinnati; M.D. 1922, Wurzburg.

WILLIAM J. ELSEY, M.D., Professor of Applied Pathology and Bacteriology.

Director, Central Laboratories, New York Hospital.

M.D. 1895, Bellevue Hospital Medical College.

STANLEY R. BENEDICT, Ph.D., Professor of Biochemistry.

Director, Department of Chemistry, Memorial Hospital.

A.B. 1906, Cincinnati; Ph.D. 1908, Yale.

OSCAR M. SCHLOSS, M.D., Professor of Pediatrics.

Pediatrician-in-Chief, New York Hospital.

B.S. 1901, Alabama Polytechnic Institute; M.D. 1905, Johns Hopkins.

- EUGENE F. DuBois, M.D., Professor of Medicine.  
Physician-in-Chief, New York Hospital.  
Consulting Physician, Bellevue Hospital.  
A.B. 1903, Harvard; M.D. 1906, Columbia.
- JOHN C. TORREY, Ph.D., Professor of Epidemiology.  
A.B. 1898, Sc.D. 1922, Vermont; Ph.D. 1902, Columbia.
- HENRICUS J. STANDER, M.D., Professor of Obstetrics and Gynecology.  
Obstetrician- and Gynecologist-in-Chief, New York Hospital.  
Chief Obstetrician, Berwind Maternity Clinic.  
M.S. 1916, Arizona; M.D. 1921, Yale.
- GEORGE J. HEUER, M.D., Professor of Surgery.  
Surgeon-in-Chief, New York Hospital.  
B.S. 1903, Wisconsin; M.D. 1907, Johns Hopkins.
- EUGENE L. OPIE, M.D., Professor of Pathology.  
Pathologist, New York Hospital.  
A.B. 1893, M.D. 1897, Johns Hopkins; Sc.D. 1931, Yale.
- JAMES M. NEILL, Ph.D., Professor of Bacteriology and Immunology.  
B.S. 1917, Allegheny; Ph.D. 1921, Massachusetts Agricultural College.
- HERBERT S. GASSER, M.D., Professor of Physiology.  
A.B. 1910, A.M. 1911, Wisconsin; M.D. 1915, Johns Hopkins.
- GEORGE S. AMSDEN, M.D., Professor of Psychiatry.  
Psychiatrist-in-Chief, New York Hospital.  
A.B. 1901, M.D. 1905, Harvard.
- LEWIS A. CONNER, M.D., Professor of Clinical Medicine.  
Consulting Physician, New York, Bellevue and Memorial Hospitals.  
Ph.B. 1887, Yale; M.D. 1890, Columbia.
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Consulting Obstetrician and Gynecologist, New York Hospital;  
Chief Surgeon, Woman's Hospital.  
M.D. 1891, Long Island College Hospital.
- JOHN A. HARTWELL, M.D., Professor of Clinical Surgery.  
Consulting Surgeon, New York, Bellevue and Memorial Hospitals  
Ph.B. 1889, M.D. 1892, Yale.
- EDWARD L. KEYES, M.D., Professor of Clinical Surgery (Urology).  
Attending Surgeon, Department of Urology, New York Hospital;  
Consulting Urologist to Bellevue and Memorial Hospitals.  
A.B. 1892, Ph.D. 1901, Georgetown; M.D. 1895, Columbia.
- CHARLTON WALLACE, M.D., Professor of Clinical Surgery (Orthopedics).  
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A.B. 1894, Transylvania; M.D. 1898, Columbia.

- BURTON J. LEE, M.D.**, Professor of Clinical Surgery.  
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Ph.B. 1894, Yale; M.D. 1898, Columbia.
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B.S. 1898, Sc.D. 1926, Amherst; M.D. 1902, Johns Hopkins.
- WALTER L. NILES, M.D.**, Professor of Clinical Medicine.  
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M.D. 1902, Cornell.
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M.D. 1898, McGill.
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A.B. 1899, Lebanon Valley; M.D. 1903, Jefferson.
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A.B. 1894, Princeton; M.D. 1898, Columbia.
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M.B., B.Ch. 1906, Royal University Ireland; M.D. 1910, Dublin.
- JOSHUA E. SWEET, M.D.**, Professor of Experimental Surgery.  
A.B. 1897, A.M. 1900, Sc.D. 1922, Hamilton; M.D. 1901, Giessen.
- JOHN W. CHURCHMAN, M.D.**, Professor of Experimental Therapeutics.  
A.B. 1898, A.M. 1901, Princeton; M.D. 1902, Johns Hopkins; A.M. 1915, Yale.
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M.D. 1907, Jefferson.
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M.D. 1904, Syracuse.

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A.B. 1896, M.D. 1903, Johns Hopkins.
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B.S. 1917, Princeton; M.D. 1921, Cornell.
- HERBERT F. TRAUT, M.D., Associate Professor of Obstetrics and Gynecology.  
Attending Obstetrician and Gynecologist, New York Hospital.  
B.S. 1917, Whitman; M.D. 1923, Johns Hopkins.
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A.B. 1912, Wesleyan; M.D. 1916, Johns Hopkins.
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B.S. 1917, Wesleyan; M.D. 1921, Johns Hopkins.
- JAMES A. HARRAR, M.D., Associate Professor of Clinical Obstetrics and Gynecology.  
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M.D. 1901, University of Pennsylvania.
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B.S. 1913, M.S. 1917, M.D. 1918, Michigan.
- SAMUEL Z. LEVINE, M.D., Associate Professor of Pediatrics.  
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A.B. 1916, College of the City of New York; M.D. 1920, Cornell.

## ASSISTANT PROFESSORS

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M.D. 1901, Jefferson.
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A.B. 1902, M.D. 1905, Columbia.
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Associate Attending Physician, New York Hospital; Consulting  
Physician, Memorial Hospital.  
M.D. 1897, New York University.
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A.B. 1900, A.M. 1904, Rutgers; M.D. 1904, Columbia.
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Clinical Pathologist, New York Hospital.  
A.B. 1903, Yale; M.D. 1907, Columbia.
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Associate Attending Physician, New York Hospital; Visiting  
Physician, Bellevue Hospital.  
M.D. 1907, Cornell.
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Attending Pediatrician, New York and New York Nursery and  
Child's Hospitals.  
M.D. 1911, Columbia.
- GUILFORD S. DUDLEY, M.D., Assistant Professor of Clinical Surgery.  
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Second Surgical Division, Bellevue Hospital.  
A.B. 1910, M.D. 1913, Cornell.
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ology.  
Clinical Bacteriologist, New York Hospital.  
M.D. 1907, Cornell.
- GEORGE PAPANICOLAOU, M.D., Assistant Professor of Anatomy.  
M.D. 1904, Athens; Ph.D. 1910, Munich.
- HAROLD E. B. PARDEE, M.D., Assistant Professor of Clinical Medicine.  
Associate Attending Physician, New York Hospital.  
A.B. 1906, M.D. 1909, Columbia.
- WALTER C. KLOTZ, M.D., Assistant Professor of Public Health and  
Preventive Medicine.  
Director, Out-Patient Department, New York Hospital.  
M.D. 1898, Columbia.

- ARTHUR PALMER, M.D., Assistant Professor of Clinical Surgery, and Acting Head, Department of Otolaryngology.  
Associate Attending Surgeon, Department of Otolaryngology, New York Hospital.  
A.B. 1911, Brown; M.D. 1915, Cornell.
- MORRIS K. SMITH, M.D., Assistant Professor of Clinical Surgery.  
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- HERVEY C. WILLIAMSON, M.D., Assistant Professor of Clinical Obstetrics and Gynecology.  
Attending Obstetrician and Gynecologist, New York Hospital.  
M.D. 1908, New York University.
- McKEEN CATTELL, M.D., Assistant Professor of Physiology.  
B.S. 1914, Columbia; A.M. 1917, Ph.D. 1920, M.D. 1924, Harvard.
- BYRON STOOKEY, M.D., Assistant Professor of Clinical Surgery.  
Associate Visiting Surgeon, Bellevue Hospital; Associate Attending Surgeon (Neurology) Memorial Hospital.  
A.B. 1908, Southern California; A.M. 1919, M.D. 1919, Harvard.
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M.S. 1913, Sc.D. 1914, Madrid.
- FRANK FRASER, M.D., Assistant Professor of Clinical Medicine (Dermatology).  
Associate Attending Physician, Department of Dermatology, New York Hospital.  
M.D.C.M. 1888, Dalhousie; M.D. 1892, Bellevue.
- MORTON C. KAHN, Ph.D., Assistant Professor of Public Health and Preventive Medicine.  
B.S. 1916, Ph.D. 1924, Cornell; A.M. 1917, Columbia.
- WILLIAM H. CHAMBERS, Ph.D., Assistant Professor of Physiology.  
B.S. 1915, M.S. 1917, Illinois; Ph.D. 1920, Washington University.
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A.B. 1919, M.D. 1922, Cornell.
- CONNIE M. GUION, M.D., Assistant Professor of Clinical Medicine.  
Assistant Attending Physician, New York Hospital.  
A.B. 1906, Wellesley; A.M. 1913, M.D. 1917, Cornell.
- HOWARD S. JECK, M.D., Assistant Professor of Clinical Surgery (Urology).  
Assistant Attending Surgeon, Department of Urology, New York Hospital; Associate Visiting Surgeon, Department of Urology, Bellevue Hospital.  
Ph.B. 1904, Yale; M.D. 1909, Vanderbilt.
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<sup>1</sup>Urology.    <sup>2</sup>Gynecology.    <sup>3</sup>Neurology.

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## GENERAL STATEMENT HISTORY

CORNELL UNIVERSITY MEDICAL COLLEGE was established by the Board of Trustees of Cornell University on April 14, 1898, when they elected Dr. William M. Polk Director of the College and Dean of the Medical Faculty, and appointed six professors. The Medical College was made possible by the munificence of Colonel Oliver H. Payne, who provided the funds for the erection of the main building of the college, and pledged it his support. For several years he provided funds for the annual support of the college, and later made a generous provision for its permanent endowment by a gift of over four million dollars to the university.

In October, 1898, instruction began in temporary quarters. As the medical college admitted a number of students with advanced standing, Cornell University granted the degree of Doctor of Medicine for the first time in 1899.

In order to link up as far as could be done the medical college in New York City with the university of which it is a part, instruction in the medical sciences was begun at Ithaca the same year that the Cornell University Medical College came into being in New York City. The first two years of medical studies could be pursued either at Ithaca or in New York, while all students joined in New York City for the last two years, consisting mainly of clinical study, and the application of the medical sciences in the practice of medicine in its many divisions. The plan providing instruction at Ithaca was changed in 1908, as it was felt that the medical students should come earlier under the influence of the teaching centered about the various New York hospitals, and since that date only the first year of medical instruction has been offered on the campus of Cornell University at Ithaca.

The Cornell University Medical College from its foundation has undertaken to carry out two allied activities, the development of physicians of the best type and the extension of medical knowledge by means of research. The medical faculty has held from the beginning of its existence the attitude that these two functions are necessary as constituting a true university school. It is committed not only to conducting teaching of high order, but also to studying disease and the sciences underlying medicine in order to add to medical knowledge, to search for new means of combating disease, and to publish the results of research so that they may be available for the benefit of all mankind.

### THE NEW YORK HOSPITAL-CORNELL MEDICAL COLLEGE ASSOCIATION

The future of Cornell University Medical College is now bound up with that of the New York Hospital, and since September, 1932, the two institutions have occupied the same plant.

The New York Hospital was founded by Royal Charter on June 13, 1771, in the reign of King George III, and has stood throughout the life of the nation as one of the foremost hospitals in the United States, as an institution rendering service to the sick and injured, and as a center of medical education. For a number of years the hospital and the medical college have been partially affiliated. In June, 1927, an agreement was entered into between Cornell University and the New York Hospital by which the New York Hospital-Cornell Medical College Association was formed for the purpose of bringing together their facilities and co-operating in the care of patients, in medical education, and in medical research. In order to harmonize the interests of the hospital and of the medical college, the Joint Administrative Board was formed, consisting of three representatives of each institution and a seventh member elected by those appointed by the hospital and by the university.

Additional endowment has been secured by each institution. A group of buildings has been erected along the East River between 68th and 71st Streets, adjoining the Rockefeller Institute for Medical Research. The new plant affords separate buildings for each of the various laboratory departments, and includes approximately 1000 hospital beds. Provision has been made for medicine, surgery, obstetrics and gynecology, pediatrics, and psychiatry in five distinct clinical units.

The faculty of the medical college and the professional staff of the hospital have been reorganized so as to form one body established on a university basis.

The new plant now completed affords very favorable conditions for the conduct of medical education, for the pursuit of medical research, and for the care of patients in all phases of medical practice.

## FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the new plant of the New York Hospital-Cornell Medical College Association are in many respects unexcelled. The plant consists of eleven buildings, joined either directly or by underground passages. All of these buildings have been designed as parts of a great teaching institution, and in planning them much thought was given to the problems of teaching. Nearly five years were required to plan and construct the group of buildings to be devoted to the care of patients, to medical teaching and to scientific research in the various fields of medicine.

The instruction in the medical sciences is conducted in a group of laboratories extending along York Avenue from 68th to 70th Street, centering about a court at the end of 69th Street, where the entrance of the medical college is located. Four buildings five stories high with two basements face York Avenue. The two outer buildings are connected with the central group by buildings two stories in height. At the northern end of the group is the laboratory of the Department of Anatomy with the Department of Public Health and Hygiene in the

connecting wing. The building at the southern end contains the laboratories of Biochemistry and Pharmacology. The central group of buildings is formed by the laboratories of the Department of Physiology on the south, and those of the Department of Bacteriology and Immunology on the north, joined by a seven-story building which contains the offices of the medical college, the library, and the Department of Pathology. This central building of the college is joined on all floors with the central hospital building.

Student laboratories and lecture rooms are provided on the second and third floors of these buildings and extensive facilities for research by staff and students are available on other floors. A series of locker and lounge rooms is provided for the use of students. A cafeteria under the direction of the chief dietitian is maintained for students and faculty.

Clinical instruction is given in the five separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provision for bed-patients, its own out-patient department, lecture rooms and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central hospital building, with six pavilions for bed-patients, three floors for its out-patient department, and extensive laboratories for chemical, physiological, and biological research.

The surgical clinic occupies the pavilions from the fifth to the ninth floor, with out-patient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing one hundred rooms for private patients, while the living quarters for the resident staff are on the six floors at the top of the building. Although the entire hospital has a capacity of approximately 1,000 beds, only about 600 beds are now in use.

The head of each clinic, responsible for the care of patients and the conduct of the professional services of the hospital, is also professor in charge of the corresponding department of the medical college. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the college and hospital, while other members of these departments devote part of their time to private practice.

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the medical college, while in others the teaching privileges have been granted to the members of the staffs who are also members of the medical college faculty.

**BELLEVUE HOSPITAL.** Bellevue is the central hospital of the New York City Department of Hospitals. It contains 1,200 beds and is de-

voted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the college include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds each. The staffs of these services are nominated by the college from among the members of its faculty and teaching staff, and the medical college is responsible for the professional conduct of these services.

**MEMORIAL HOSPITAL.** Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. According to an agreement between the memorial hospital and the college, the professional staff is named by the Council of the Medical College, subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

**THE JOHN E. BERWIND FREE MATERNITY CLINIC.** An affiliation having been consummated between the John E. Berwind Free Maternity Clinic and Cornell University Medical College, the medical direction of the clinic is placed under the control of the college. The medical staff, including the resident and house staffs, are appointed by the clinic only on nomination by the medical college.

Cornell students are assigned to the clinic for practical instruction under the direction of the Professor of Obstetrics and Gynecology.

When Cornell students have been provided for, vacancies in the student staff will be filled by appointment. Application for such assignments should be made to the Superintendent of the Clinic, 125 East 103rd Street, New York, N. Y.

**THE NEW YORK NURSERY AND CHILD'S HOSPITAL.** By courtesy of the trustees of this hospital, its facilities have been placed at the disposal of the medical college for instruction in pediatrics. The hospital has provided laboratory and teaching facilities which have been of great value in the study of the disorders and diseases of childhood, and which have served for purposes of instruction in this field.

**WOMAN'S HOSPITAL.** By a provision in the act of incorporation of the Woman's Hospital it is open for the purpose of medical education. As the chief surgeon is a professor in the medical college, this hospital affords excellent opportunities for instruction in gynecology.

**MANHATTAN STATE HOSPITAL, WARD'S ISLAND.** This hospital for the care and treatment of mental diseases accommodates over 5,000 patients. Through the courtesy of the superintendent, the Department of Psychiatry is enabled to utilize this clinical material for bedside study of patients and for the instruction of students.



**ST. LUKE'S HOSPITAL.** Teaching privileges have been granted for surgical instruction which is conducted under the direction of a professor in Cornell University Medical College who is an attending surgeon of St. Luke's Hospital. The surgical service of this splendid institution affords valuable opportunities for the study of surgery.

**OTHER HOSPITALS.** Instruction is also conducted at the Willard Parker Hospital, the Hospital for the Ruptured and Crippled, and St. Mary's Hospital, in which staff positions are held by members of the faculty and teaching staff who have the privilege of conducting medical instruction.

#### THE RUSSELL SAGE INSTITUTE OF PATHOLOGY

This institute has been associated with Cornell University Medical College since 1913, through its affiliation with the Second Medical (Cornell) Division of Bellevue Hospital. It has supported research work in metabolism conducted by the members of the Department of Medicine. Dr. Eugene F. DuBois, Professor of Medicine, is the medical director of the institute. The respiration calorimeter which has been operated for a number of years by Dr. DuBois at Bellevue Hospital has been transferred by the directors of the institute to the New York Hospital, and sufficient funds for carrying on the important metabolic studies of the staff have been provided by the institute.

#### THE LIBRARY

The reading room of the library is situated on the second floor of the central group of laboratory buildings, directly over the entrance of the medical college. The current journals are kept in racks about three sides of the room. The book stacks are directly behind and open to the reading room, and extend down to the sub-basement with six floors of stacks and accommodations for about 100,000 volumes. There is also a library seminar room, and several rooms for the library staff.

The library contains at the present time about 20,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also well-selected collections of monographs, textbooks, and reprints.

The library is under the direction of a committee of the faculty, and in charge of a trained librarian who gives instruction to students on the proper methods of using the library and of searching medical literature.

A special fund, maintained in memory of Alfred Moritz Michaelis, M.D., Cornell 1925, who died the year after his graduation, is used for the purchase of biographies, books of cultural value in medicine and of historic value.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

## REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College is of the opinion that candidates for admission to the medical profession should possess the liberal culture and general education implied by a college degree in arts or science. *Only the following classes of candidates for the degree of Doctor of Medicine are admitted to Cornell University Medical College.*

I. Graduates of approved colleges or scientific schools; *or*

II. Seniors in good standing in approved colleges or scientific schools upon condition that their faculty will permit them to substitute the first year in Cornell University Medical College for the fourth year of their college course, and will confer upon them the bachelor's degree upon the satisfactory completion of the year's work. No student admitted under this clause is permitted to enter the second year of the curriculum without having obtained a bachelor's degree.

III. Persons who give evidence by examinations that they have acquired an equivalent education to that signified by a bachelor's degree, and training sufficient to enable them to profit by the instruction offered in the medical college. This rule is intended to apply to students of foreign universities.

ALL CANDIDATES FOR ADMISSION shall have satisfactorily completed, in an approved college, at least the following minimum requirements, in which a semester hour is the credit value of at least sixteen weeks' work, consisting of one hour of lecture or recitation or two or more hours of laboratory work, per week.

1. Physics, 6 semester hours, including laboratory work.

2. Chemistry, 12 semester hours (8 hours of inorganic, including qualitative analysis and 4 hours of organic chemistry). Quantitative Analysis is recommended but not required.

3. Biology (Zoology), 6 semester hours, including laboratory work. In addition to this minimum requirement, a course in general histology with embryology including the early development of the frog and chick is very desirable. Courses in the comparative anatomy of vertebrates and elementary histological technique are also recommended.

4. English, 6 semester hours.

5. Modern language, 6 semester hours—French or German.

6. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology and abnormal psychology are properly subjects of the medical, and not the pre-medical curriculum. In planning pre-medical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum. It is also suggested that students follow mathematics of college grade up to and including calculus, particularly if advanced work in the medical sciences is contemplated.

## APPLICATIONS FOR ADMISSION

All applications and inquiries regarding admission are to be addressed to the Secretary of the Faculty, from whom application forms may be obtained. Applications for admission should be submitted not later than January of the calendar year in which admission is desired, and should be followed promptly by an official transcript of the college record. A recent unmounted photograph of the applicant must be attached to each application.

All applicants, if requested, are required to present themselves *in person by appointment* at the office of the Secretary of the Faculty at some time after their credentials have been submitted.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. Candidates are promptly notified of the decision of the Committee. Accepted applicants are required to make a deposit of one hundred dollars within a specified time, usually about two weeks after notification of admission. This deposit is *not returnable*, but is credited toward the first tuition payment. If he fails to make this deposit within the time specified the applicant forfeits his place in the medical college.

A medical student's qualifying certificate, issued by the New York State Education Department signifying that its requirements have been met, must be secured before registration by each student accepted for admission. An application blank for the certificate with full instructions will be sent by the college to each student admitted.

## ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing under the following conditions:

Applications for advanced standing should be filed according to the procedure described for admission to the first year class, accepted applicants being required to make the same deposit of one hundred dollars. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must also present a certificate of honorable dismissal from the medical school or schools they have attended.

Examinations may be required in any of the medical courses taken at another school.

## EXAMINATIONS AND PROMOTIONS

I. **ADVANCEMENT.** Students are advanced in their course upon recommendation of the Committee on Promotion and Graduation, which is composed of the heads of departments or their representatives responsible for the more important courses of each year. The quality

of the work of each student is considered, usually at the end of each term. Students are notified whenever the committee considers that their work is of an unsatisfactory quality. No grades are ever announced to students.

II. EXAMINATIONS. Examinations for advancement, graduation, and admission to advanced standing are held at the close of the academic year, except that in each course extending through a part of the year only, examinations may be held at the close of the course in the hours allotted thereto.

Students who fail in more than 40 per cent of the required hours of the first year, or in more than 30 per cent of the required hours of the subsequent years, must withdraw from the medical college. Students failing in less than the number of hours prescribed above may be re-examined, but only after pursuing additional work, under the direction of the head of the department in which a failure has occurred, throughout at least one term, or during a summer vacation.

Students who fail on reexamination are required to withdraw from the medical college, unless under special circumstances they are permitted by the Committee on Promotion and Graduation to repeat courses in which failures have occurred. Students repeating any work may be forbidden by the committee to take all or some of the courses they would normally carry.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the medical college.

## REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years, and be of good moral character. They must have spent at least four years of study as matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum, must have passed all prescribed examinations, and be free from indebtedness to the college. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

## EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

In New York State all requirements for admission to examinations for license should be filed with the State Education Department at least fifteen days before the examinations are held. In 1934 these examinations will be held in February, June, and September (dates to be announced) at New York, Albany, Syracuse, and Buffalo.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is accepted by the Surgeons-General of the Army and Public Health Service of the United States and by the boards of medical licensure of forty-one states, Porto Rico, Hawaii, and the Canal Zone. This certificate is also recognized by the respective authorities of England, Scotland, and Ireland. For information write to The National Board of Medical Examiners, 225 South Fifteenth Street, Philadelphia, Pa.

## GENERAL INFORMATION

### FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College.

TUITION FEE . . . . . \$500 per year.

This fee is payable at the beginning of the academic year or in two equal parts, in which case the first payment must be made at registration and the second on January 15. No refund or rebate will be made in any case.

An advance of \$100 on account of tuition is required of all applicants accepted for admission *and is not returnable*. At matriculation it is credited toward tuition.

MATRICULATION FEE . . . . . \$10

This fee is payable only once, on admission.

BREAKAGE DEPOSIT . . . . . \$10

This deposit is to be made at the beginning of each academic year, and will be returned, less the amount charged for breakage, at the end of the year.

OBSTETRICS FEE . . . . . \$10

This is a special fee, payable at the beginning of the third year.

FINAL EXAMINATION FEE . . . . . \$25

This fee is payable on registration for graduation.

STUDENTS OF THE GRADUATE SCHOOL:

For fees, see page 94.

SPECIAL STUDENTS:

MATRICULATION AND ADMINISTRATION FEE . . . . . \$15

TUITION: See sections describing the courses offered.

All students entering the medical college are required to provide themselves with satisfactory microscopes. Haemocytometers and haemoglobinometers will be required at the beginning of the third quarter of the second year. The necessary books are conservatively estimated to cost about \$50 per year.

All students should assure themselves that they can carry the financial burdens involved with reasonable certainty up to the time of graduation. Experience has proved that the student will need his entire time and undivided interest for study. It is unwise to depend upon earning any part of one's expenses during the college year. See requirements for graduation, page 52.

## STUDENT HEALTH SERVICE

All members of the first year class and all students transferred from other colleges are required to have a thorough physical examination by a member of the staff assigned by the college physician. All students are re-examined yearly. Health records are kept, and students are advised concerning their physical condition and general health. All cases of illness must be reported immediately to the college physician. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the college health service is expected. A woman physician on the staff will be available for women students. The college physician will have regular office hours daily. Students pay no fees for the services of the authorized staff.

## SCHOLARSHIPS\*

1. THE JOHN METCALFE POLK SCHOLARSHIP. A gift under the will of William Mecklenberg Polk, the first Dean of the medical college, is awarded annually by the faculty. The scholarship amounts to \$250 a year.

2. THE THORNE SHAW SCHOLARSHIP FUND. This fund provides three scholarships designated as:

First: A scholarship of \$500 available to students after at least two years of study in the medical college.

Second: Two scholarships of \$250 each available to students after at least one year of study in the medical college.

These scholarships are awarded by the faculty upon nomination by the Committee on Scholarships and Prizes. They are awarded annually in June and are for one year only. Students receiving the scholarships are notified of the award at the end of the session, and public announcement is made at the opening of the subsequent session in September.

3. MARY F. HALL SCHOLARSHIP. The income, amounting to about \$150 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a *bona fide* resident of the State of New York and was such prior to admission to the college.

## LOAN FUNDS

1. THE 1923 LOAN FUND. This fund amounts to \$350 a year and is available as a loan to students needing financial assistance, preferably to a third year student.

2. ALUMNI ASSOCIATION LOAN FUND. The Alumni Association of the medical college has set aside sufficient funds to aid several students in meeting their tuition expenses. This fund will be administered by the medical college in cooperation with a committee of the Alumni

\*Scholarships are awarded primarily for merit, with need a secondary consideration.

Association. Students receiving aid from this fund will, as a general rule, be selected from the upper classes.

3. **GET-TOGETHER LOAN FUND.** This fund has been collected by the students of the medical college, and is available for a student of the third or fourth year class who is in need of immediate financial assistance.

### PRIZES

1. **FOR GENERAL EFFICIENCY.** In commemoration of John Metcalfe Polk, an instructor in this college, who was graduated from Cornell University Medical College on June 7, 1899, and died on March 29, 1904, prizes will be presented at each commencement to the three students having the highest standing for the four years work. Only those who have taken the full course of study at Cornell University Medical College are eligible. The first prize is \$300, the second \$125, and the third \$75.

2. **FOR EFFICIENCY IN GYNECOLOGY.** Established by Mrs. W. M. Polk in memory of William Mecklenburg Polk, M.D., LL.D., Dean and Professor of Gynecology in Cornell University Medical College from its founding in 1898 until his death, June 23, 1918, annual prizes are awarded to three members of the senior class, in order of merit, for special distinction in gynecology. The first prize is \$125, the second \$75, and the third \$50.

3. **FOR EFFICIENCY IN OTOLOGY.** Two prizes, the first of \$50, the second of \$25, are offered by Professor Frederick Whiting to the two students of the graduating class who make the best records in otology.

4. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes, the first of \$75, the second of \$25, have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligman in obstetrics, to be given to the two students of the graduating class who have made the best records in obstetrics.

5. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income of \$1,000 is offered as a prize for general efficiency in the Department of Medicine, to be known as the Alfred Moritz Michaelis prize in general medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at each commencement to a member of the graduating class who has pursued the full course at Cornell University Medical College.

6. **FOR EFFICIENCY IN RESEARCH.** In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the medical college, two prizes are offered to regularly matriculated students of the Cornell University Medical College, the first of \$200, and the second \$50.

The awards are made annually at the opening exercises of the medical college in September for the best reports presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single



text or reference book. If the papers submitted are not considered worthy of special commendation the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked, "Dean William Mecklenburg Polk Memorial Prize Committee," and must be in the Dean's Office not later than the first day of September.

The committee of awards for this prize consists of two members of the faculty from laboratory departments, and two from clinical departments.

7. FOR EFFICIENCY IN NEUROLOGY. A prize of \$50 is offered by Dr. Foster Kennedy, to a student of the graduating class who makes the best record in neurology.

## EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The medical college is divided into thirteen major departments, six of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, bacteriology and immunology, pathology, and pharmacology. Seven departments have as their major functions the study, treatment, and prevention of human disease, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, public health and preventive medicine, and applied pathology and bacteriology.

The heads of these thirteen major departments, together with the President of the University, the Director, and the Associate Dean, constitute the Executive Faculty, which is responsible for the educational policies of the college.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a relatively small part of that needed for a successful career in medicine can be acquired during a reasonable length of time devoted to medical study after completion of the required collegiate education and before beginning independent professional work as a doctor of medicine. Four periods of thirty-two weeks each is the time necessary to complete the requirements for the degree of Doctor of Medicine. The required period of study extends over four academic years, of which approximately twenty weeks of each year are allowed for vacation. It is planned that studies may be pursued during vacation periods. This will provide an opportunity to shorten the time necessary to complete all required courses and thereby to devote more time to elective work. Opportunities for studying in other medical schools may also be arranged during the course if appropriate conditions can be found.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the college to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is therefore desirable for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course, but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, and physiology. It is divided into trimesters, while in subsequent years the regular period of study consists of four periods or quarters of eight weeks each.

During the second year, the required courses in physiology, pathology, bacteriology and immunology, and in pharmacology occupy the first three quarters. The last quarter is devoted to technical training preparatory to the study of patients, courses being given by the departments of applied pathology and bacteriology, medicine, and anatomy.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third and fourth year classes meet together at noon each day for clinical lectures and demonstrations and for clinical-pathological conferences.

Time for elective work is provided in the second and fourth years, after students have had opportunities to acquire some knowledge of the medical sciences and of clinical medicine. Students are advised to consult informally members of the faculty in regard to the use of their time for elective work, as it is deemed best not to establish a formal advisory system.

The details of the courses offered by each department are to be found in the departmental announcements.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.

## TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>
ANATOMY . . . . .	442	24		
HISTOLOGY AND EMBRYOLOGY . . . . .	254			
NEURO-ANATOMY . . . . .	88			
BIOCHEMISTRY . . . . .	244			
PHYSIOLOGY . . . . .	132	112		
PHARMACOLOGY . . . . .		120		
BACTERIOLOGY . . . . .		144		
PATHOLOGY . . . . .		304		
CLINICAL PATHOLOGY . . . . .		128		
MEDICINE . . . . .		120	361	300
DERMATOLOGY . . . . .			16*	
NEUROLOGY . . . . .			12*	
NEUROPATHOLOGY . . . . .			24*	
SURGERY . . . . .			417	268
SURGICAL PATHOLOGY . . . . .			36**	
UROLOGY . . . . .			24**	
OPHTHALMOLOGY . . . . .			16**	
OTOLARYNGOLOGY . . . . .			16**	
ORTHOPEDICS . . . . .			16**	
OBSTETRICS AND GYNECOLOGY . . . . .			188	344 (Minimum)
PEDIATRICS . . . . .			115	68
PSYCHIATRY . . . . .	33	24	63	82
PUBLIC HEALTH . . . . .				96
RADIOLOGY . . . . .			8	
ELECTIVE . . . . .	(49)	(200)	(24)	(156)
TOTAL . . . . .	1193	976	1152	1158

\*Included in 361 hours allotted to Medicine.

\*\*Included in 417 hours allotted to Surgery.

## ANATOMY

CHARLES R. STOCKARD, Professor of Anatomy.  
CHARLES V. MORRILL, Associate Professor of Anatomy.  
GEORGE PAPANICOLAOU, Assistant Professor of Anatomy.  
JOSÉ F. NONIDEZ, Assistant Professor of Anatomy.  
PHILIP B. ARMSTRONG, Assistant Professor of Anatomy.  
LOUIS HAUSMAN, Associate in Neuro-Anatomy.  
EMILIA M. VICARI, Research Associate in Anatomy.  
JOSEPH L. SCHWIND, Instructor in Anatomy.  
WILLIAM L. SNEED, Instructor in Applied Anatomy.  
WILLIAM T. JAMES, Assistant in Anatomy.  
ALBERT C. REDMOND, Student Assistant in Anatomy.

### I. MORPHOLOGY

**STRUCTURE OF MAN.** This course considers the structure of the various organs and systems of the human body in the light of their variations and evolutions. The relationship of the parts, organs and systems is also explained by numerous facts gathered from experimental morphological studies on lower vertebrates.

The chief aim is to emphasize the idea that animal structures are constantly changing and varying, yet are so definite as to lend themselves to logical analysis.

Laboratory, 40 hours (elective), and demonstration conference, 22 hours (optional). Professor STOCKARD.

### II. EMBRYOLOGY AND HISTOLOGY

The work in embryology presupposes a general knowledge of the subject, particularly that of the early development of the chick. It embraces a thorough study of the development of the mammalian embryo in the light of our knowledge of the evolution of the human body. Malformations resulting from developmental disturbances are broadly considered. The course is closely correlated with that of gross anatomy.

The work in histology includes the histogenesis and microscopic structure of all organs of the human body with the exception of the central nervous system (See Neuro-anatomy). Emphasis is laid on the relation of structure to function.

The tissues are studied principally by means of stained sections and practice is given in rapid identification of their diagnostic features. Demonstrations of living material are made and opportunities are offered for acquiring the essentials of histological technique.

A part of the course is devoted to seminars on current literature.

Laboratory course and lectures, 254 hours, October to March. Required of all first year students. Assistant Professor NONIDÉZ, Dr. SCHWIND and assistants.

### III. NEURO-ANATOMY

A laboratory course on the gross and microscopic anatomy of the human nervous system. Special emphasis is laid on the more important pathways and their functions.

Laboratory and demonstrations, 88 hours. Required of all first year students during the third term. Assistant Professor NONIDÉZ and Dr. HAUSMAN.

### IV. GROSS ANATOMY OF THE HUMAN BODY

This is taught by means of laboratory exercises and dissections. The required work includes: (a) Dissection of the part. (b) Demonstrations, study and discussion upon dissected and prepared specimens, and from standard text-books.

Total laboratory hours, 442 (minimum). First and second terms of the first year.

Course 1. A DEMONSTRATION COURSE. Demonstrations upon the cadaver, models and dissected preparations amplifying the courses in dissection during the first and second terms of the first year. Optional for the first year students.

Course 2. STUDY ROOM COURSE IN LIVE ANATOMY. Since the ultimate aim of dissection is to acquaint the student not merely with the arrangement of structures in the cadaver, but with the facts of the living body, this course follows as a natural sequence to the work of the dissecting room. Optional to first year students.

Course 3. DISSECTION REVIEW. The work gives an opportunity for advanced dissection. Optional to students of the second, third, or fourth years. Afternoons.

Course 4. TOPOGRAPHICAL ANATOMY. A study of the relations and topography of the parts of the body by means of frozen sections. Cleared preparations and living models are also used. Members of the class must submit a number of drawings made from the sections.

Laboratory, 24 hours. Required during the fourth quarter of the second year. Professors STOCKARD, MORRILL, ARMSTRONG, and assistants.

### V. ELECTIVE COURSES

Course 1. PREPARATORY TO THE SPECIALTIES. These courses offer a thorough review of the embryology, histology and gross anatomy of the following organs and systems: (a) the eye; (b) the ear; (c) the face and neck, including especially the nose and accessory sinuses, the mouth and salivary glands, pharynx and larynx, thyroid, and parathyroid glands; (d) the genito-urinary system, male and female; (e)

the brain and spinal cord; (f) the thorax and abdomen; (g) the extremities, especially the joints and their mechanics. Laboratory, 40 hours. Professor STOCKARD.

Course 2. GENERAL HISTOLOGY. This course will comprise a study of the various types of tissues which form the several organs of the vertebrate body. The structures will be studied not only from the mere morphological standpoint, but the various biological problems involved will be taken into consideration. The close relationship between structure and function will be elucidated.

Twenty lectures. Assistant Professor NONIDEZ and Dr. SCHWIND.

Course 3. THE ANATOMY OF THE INFANT. A course of lectures amplified by demonstrations and the study of preparations.

Twenty demonstrations arranged for in advance. Professor STOCKARD.

Course 4. DEVELOPMENTAL ARRESTS AND STRUCTURAL DEFICIENCIES. A discussion of the imperfections in development which may occur during various periods from the maturation of the germ cells, fertilization of the egg on through embryonic and fetal development.

Fifteen lectures. Professor STOCKARD.

Course 5. EXPERIMENTAL EMBRYOLOGY. These lectures begin with the history of the subject and the various aspects of the problems concerned. The experimental analysis of embryological processes is then considered from several points of view.

Twenty lectures with conferences considering the recent literature of the subject. Professor STOCKARD.

Course 6. REGIONAL ANATOMY. This course will comprise a thorough review by means of dissections, demonstrations and reading of the gross anatomy, histology and development of selected regions of the body and of organs and organ systems.

Laboratory and demonstration, 3 half days a week for one month. Associate Professor MORRILL and assistants.

Course 7. APPLIED ANATOMY. Special emphasis on fractures, dislocations, and injuries to the spine and extremities. The course will include eight conferences. Not given for less than six students. Dr. SNEED.

Course 8. ANATOMICAL RESEARCH. To students desiring to pursue research in anatomical subjects the equipment of the entire department is available. Members of the staff will assign subjects and direct the progress of advanced work of this type. The work may be elected by students who enter with advanced credits, or by any student who has completed the preliminary courses in descriptive anatomy, histology and embryology. The course is also open to graduates in medicine or biology.

OTHER ELECTIVES. The Department of Anatomy will arrange a schedule of work to fit individual cases for a limited number of *fourth-year students* desiring to devote the major part or all of their elective

time. Such work will be designed, in cases where sufficient time is available, to equip the student to become a laboratory assistant.

## COURSES OPEN TO STUDENTS OF THE GRADUATE SCHOOL

1. EMBRYOLOGY. September to March. Fee \$50. Details, pages 61, 63.
2. HISTOLOGICAL TECHNIC.\* Laboratory at least three hours daily and conferences with instructors. Fee \$30.
- 3 and 4. GENERAL HISTOLOGY AND MICROSCOPICAL ANATOMY. September to March. Fee \$50. Details on page 61.
5. DISSECTION.\* See Courses I-IV, page 62. Fee \$30 per term (ten weeks); or for the entire dissection, \$50.
6. NEURO-ANATOMY. March to May. Fee \$30. Details on page 62.
7. ANATOMICAL RESEARCH.\* Subject to special arrangement with the head of the department.

## BIOCHEMISTRY

STANLEY R. BENEDICT, Professor of Biochemistry.

RICHARD W. JACKSON, Assistant Professor of Biochemistry.

NATHAN F. BLAU, Research Associate in Biochemistry.

WILLIAM H. SUMMERSON, Instructor in Biochemistry.

EMIL OSTERBERG, Instructor in Biochemistry.

JEANETTE ALLEN BEHRE, Instructor in Biochemistry.

ELEANOR B. NEWTON, Instructor in Biochemistry.

GERTRUDE GOTTSCHALL, Assistant in Biochemistry.

GLADYS J. FASHENA, Student Assistant in Biochemistry.

The instruction in biochemistry is concentrated in the first year, and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of organic and physiological chemistry which is necessary to the comprehension of the bearings of chemistry upon physiology, pharmacology, and medicine.

**LECTURES.** There are three conferences a week on physical chemistry during the first term. The elements of the subject are presented with special emphasis upon the properties and reactions of colloids, and the theory of indicators. Roentgen and radium rays are also discussed.

During the second term two lectures a week are devoted to organic and physiological chemistry. The lectures discuss groups of compounds of special biological importance, emphasizing the carbohydrates, purines, amino acids and fats.

In the third term two lectures weekly are devoted to physiological chemistry.

**LABORATORY WORK.** During the first term there is one session weekly of two hours in physical chemistry. The experiments are designed to

\*Courses may be begun at any time.



familiarize the student with the fundamental properties of electrolytes and colloids, and to study the phenomena of osmosis and dialysis. Methods of hydrogen ion determination are also studied.

In the second term there are five hours weekly in organic and physiological chemistry. This work is directed mainly to the study of organic compounds of biological importance, and furnishes practice on those points in which laboratory manipulations are desirable.

During the third term there are two four-hour laboratory sessions weekly in physiological chemistry. This course includes the study of the reactions of the carbohydrates, fats and proteins; of the composition of the salivary, gastric, pancreatic and intestinal secretions and the bile, and their actions in digestion; of the urine, blood, and milk; and of the examination of pathological fluids, concretions, etc. The arrangement of this course is in coaptation with those in physiology and in clinical pathology.

Total hours, 244.

**RESEARCH.** The laboratory is open to students of any year who desire to prosecute advanced work or research, subject to the regulations of the office.

### ELECTIVE COURSES

**CHEMICAL PATHOLOGY.** A practical course in the chemical analysis of the blood. The laboratory work is supplemented by informal lectures and discussions. Hours to be arranged.

### COURSES OPEN TO STUDENTS OF THE GRADUATE SCHOOL

1. **PHYSICAL CHEMISTRY AS APPLIED TO MEDICINE.\*** Eleven weeks, two lectures, one laboratory period. Fee \$25.
2. **PHYSIOLOGICAL CHEMISTRY.\*** Two terms, of ten and eleven weeks each. Two lectures and two laboratory periods each week. Fee \$25 per term.
3. **CHEMICAL PATHOLOGY.\*** A practical course in methods of blood analysis. Two three-hour periods a week for one month. Fee \$25.
4. **RESEARCH WORK IN PHYSIOLOGICAL CHEMISTRY, CHEMICAL PATHOLOGY, OR TOXICOLOGY.\*** Hours and fee to be arranged with each student.

### PHYSIOLOGY

HERBERT S. GASSER, Professor of Physiology.

DAYTON J. EDWARDS, Associate Professor of Physiology.

McKEEN CATTELL, Assistant Professor of Physiology.

WILLIAM H. CHAMBERS, Assistant Professor of Physiology.

HARRY GRUNDFEST, Assistant in Physiology.

*First Year.* Lectures, laboratory and conferences. Physiology of muscle and nerve, the central nervous system, the special senses, digestion and internal secretions. 132 hours.

\*These courses may be begun at any time.

*Second Year.* Lectures, laboratory and conferences. Physiology of the blood, circulation, respiration, and metabolism. 112 hours.

### ELECTIVE COURSES

The department will arrange a schedule of work for fourth year students who wish to devote their elective time to physiology.

### COURSES OPEN TO STUDENTS OF THE GRADUATE SCHOOL

1. PHYSIOLOGY. Third term. Fee \$50.
2. PHYSIOLOGICAL RESEARCH. Subject to special arrangement with the head of the department. May be begun at any time.

### BACTERIOLOGY AND IMMUNOLOGY

JAMES M. NEILL, Professor of Bacteriology and Immunology.

J. LIONEL ALLOWAY, Assistant Professor of Bacteriology and Immunology.

JOHN Y. SUGG, Instructor in Bacteriology and Immunology.

LYLE A. WEED, National Research Council Fellow.

The course given to second year students consists of lectures, laboratory work, and group conferences. Emphasis is placed upon the aspects of bacteriology and of immunology that are pertinent to an understanding of the etiology and pathogenesis of infectious diseases. The study of infectious material from patients is included in the laboratory part of the course, not only to acquaint the student with the technical procedures, but to illustrate the application of fundamental principles to practical methods. 144 hours.

### ELECTIVE COURSES

The department will arrange a schedule of work for fourth year students who wish to devote their elective time to bacteriology and immunology.

### COURSE OPEN TO STUDENTS OF THE GRADUATE SCHOOL

Opportunities for advanced study and for research will be offered to students particularly interested in bacteriology and immunology. Hours to be arranged.

## PATHOLOGY

### GENERAL PATHOLOGY, PATHOLOGICAL ANATOMY, EXPERIMENTAL PATHOLOGY

EUGENE L. OPIE, Professor of Pathology.  
JAMES EWING, Professor of Oncology.  
ROBERT A. MOORE, Assistant Professor of Pathology.  
JACOB FURTH, Assistant Professor of Pathology.  
JULES FREUND, Assistant Professor of Pathology.  
LEWIS D. STEVENSON, Assistant Professor of Neuropathology.  
FRED W. STEWART, Associate in Pathology.  
CHARLES T. OLCOTT, Instructor in Pathology.  
HENRY W. FERRIS, Instructor in Pathology.  
D. MURRAY ANGEVINE, Instructor in Pathology.  
HENRY S. DUNNING, Assistant in Pathology.  
ROBERT J. PARSONS, Assistant in Pathology.  
PETER A. H. MIDELFART, Assistant in Pathology.

### GENERAL PATHOLOGY

**FACILITIES.** The department of pathology occupies three floors of the central part of the college building, conveniently located above the library and in immediate contact with the hospital, the autopsy room being in the connecting wing between college and hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and class rooms are found. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, adequate animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of nearly three thousand specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

For undergraduate teaching, there is a collection of approximately 500 sets of demonstration slides, which are loaned to the student during the course. Supplementing this teaching collection, all the autopsy slides of the New York Hospital for the past 25 years or more, carefully cross-indexed, are kept on file. There is also a general collection of 20,000 slides for special study of specific diseases or organs.

**INSTRUCTION.** The course of instruction is given in the second and third quarters of the second year. It consists of gross and microscopic study of pathological lesions, experiments, lectures and class room

demonstrations. This is supplemented by study of gross pathology at the autopsy table. The course begins with the degenerations, inflammation and repair, and proceeds with the various specific infections. The latter part of the course is devoted to special systemic pathology, including neuropathology.

Course I. GENERAL PATHOLOGY. Laboratory work with lectures and gross and microscopical demonstrations. The work covers inflammation, degeneration, regeneration, and infectious diseases.

Required in second quarter of second year, 120 hours.

Course II. SYSTEMIC PATHOLOGY. Continuation of elementary course, covering oncology and pathology of various organ systems.

Required in third quarter of second year, 184 hours. Total, 304 hours.

Professors OPIE, MOORE, and staff.

### ELECTIVE COURSES

A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of several fields, to be determined by consultation with the head of the department. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months, and may be continued into the summer.

### COURSE OPEN TO STUDENTS OF THE GRADUATE SCHOOL

Opportunity is afforded a limited number of students to engage in research under the direction of a member of the department. The student must devote his entire time to work in pathology and related subjects. By special arrangement this work may be pursued at the Memorial Hospital in cancer research.

### PHARMACOLOGY

ROBERT ANTHONY HATCHER, Professor of Pharmacology.

HARRY GOLD, Assistant Professor of Pharmacology.

JANET TRAVELL, Instructor in Pharmacology.

#### I. PHARMACOLOGY

Course 1. LABORATORY. The experiments are designed to illustrate a wide range of pharmacologic actions, the more important drugs being considered with reference to their actions on different structures. Professors HATCHER and GOLD and Dr. TRAVELL.

Course 2. LECTURES. Lectures, conferences and written reviews on systematic pharmacology. Professors HATCHER and GOLD. Total hours, 120, including materia medica and pharmacy.

## II. MATERIA MEDICA AND PHARMACY

Course 3. **ELEMENTARY PHARMACY AND TOXICOLOGY.** Consideration of crude drugs, and making pharmacopeial preparations of the different pharmaceutical classes (extracts, pills, etc.) and toxicologic analysis. Each laboratory exercise is preceded by an informal discussion of the work and its relation to therapeutics. Dr. TRAVELL.

Course 4. **PRESCRIPTION WRITING.** A course of eight hours. Dr. GOLD.

Course 5. **RESEARCH.** Students are encouraged to conduct original research under the supervision of the members of the staff. Such work affords a valuable insight into pharmacologic methods, and assists in the formation of a correct estimate of the original work of others. Elective.

### ELECTIVE COURSES

The department will arrange a schedule of work for fourth year students who wish to devote their elective time to pharmacology.

### COURSES OPEN TO STUDENTS OF THE GRADUATE SCHOOL

Course 1. **LABORATORY PHARMACOLOGY.** Under supervision and including conferences with instructor. Fee \$25.

Course 2. **RESEARCH WORK IN PHARMACOLOGY.\*** Subject to special arrangement with the head of the department.

## APPLIED PATHOLOGY AND BACTERIOLOGY

WILLIAM J. ELSE, Professor of Applied Pathology and Bacteriology.

RALPH G. STILLMAN, Assistant Professor of Clinical Pathology.

GEORGE W. WHEELER, Assistant Professor of Applied Bacteriology.

GUSTAV I. STEFFEN, Instructor in Applied Bacteriology.

RUTH THOMAS, Instructor in Applied Bacteriology.

ELIZABETH WATSON, Assistant in Applied Bacteriology.

The introductory required course is given in the fourth quarter of the second year. It consists of 128 hours of lectures and laboratory work. This time is devoted to the teaching and practical application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied will include chemical, morphological, serological, cultural and animal inoculation methods which are of value as diagnostic procedures. There will also be included discussion of the significance of findings.

\*This course may be begun at any time

## MEDICINE

EUGENE F. DuBois, Professor of Medicine.  
G. CANBY ROBINSON, Professor of Medicine.  
LEWIS A. CONNER, Professor of Clinical Medicine.  
WILLIAM R. WILLIAMS, Professor of Clinical Medicine.  
WALTER L. NILES, Professor of Clinical Medicine.  
NELLIS B. FOSTER, Professor of Clinical Medicine.  
MALCOLM GOODRIDGE, Professor of Clinical Medicine.  
JOSEPH C. ROPER, Professor of Clinical Medicine.  
RUSSELL L. CECIL, Professor of Clinical Medicine.  
JOHN W. CHURCHMAN, Professor of Experimental Therapeutics.  
HENRY B. RICHARDSON, Associate Professor of Medicine.  
HAROLD J. STEWART, Associate Professor of Medicine.  
WILLIAM C. THRO, Associate Professor of Medicine.  
PAUL REZNIKOFF, Assistant Professor of Medicine.  
HAROLD G. WOLFF, Assistant Professor of Medicine.  
EPHRAIM SHORR, Assistant Professor of Medicine.  
BRUCE WEBSTER, Assistant Professor of Medicine.  
ROBERT A. COOKE, Assistant Professor of Clinical Medicine.  
EDWARD CUSSLER, Assistant Professor of Clinical Medicine.  
CARY EGGLESTON, Assistant Professor of Clinical Medicine.  
CONNIE M. GUION, Assistant Professor of Clinical Medicine.  
ARTHUR L. HOLLAND, Assistant Professor of Clinical Medicine.  
WILLIAM S. LADD, Assistant Professor of Clinical Medicine.  
HAROLD E. B. PARDEE, Assistant Professor of Clinical Medicine.  
HENRY J. SPENCER, Assistant Professor of Clinical Medicine.  
DOUGLAS SYMMERS, Assistant Professor of Applied Pathology.  
HARRY A. BRAY, Lecturer in Medicine.  
ROBERT O. LOEBEL, Instructor in Medicine.  
EDITH E. NICHOLLS, Instructor in Medicine.  
WENDELL J. STAINSBY, Instructor in Medicine.  
WILLIAM D. STRAYHORN, Instructor in Medicine.  
KARL J. THOMSON, Instructor in Medicine.  
ABRAHAM A. ANTOVILLE, Instructor in Clinical Medicine.  
BENJAMIN I. ASHE, Instructor in Clinical Medicine.  
HORACE S. BALDWIN, Instructor in Clinical Medicine.  
JAMES M. BETHEA, Instructor in Clinical Medicine.  
GEORGE E. BINKLEY, Instructor in Clinical Medicine.  
EDWARD A. BURKHARDT, Instructor in Clinical Medicine.  
LAILA COSTON-CONNER, Instructor in Clinical Medicine.  
THEODORE J. CURPHEY, Instructor in Clinical Medicine.  
EDWARD W. DODD, Instructor in Clinical Medicine.  
EMIL A. FALK, Instructor in Clinical Medicine.  
DAVID GLUSKER, Instructor in Clinical Medicine.  
EDWIN T. HAUSER, Instructor in Clinical Medicine.

LOUIS A. HAUSER, Instructor in Clinical Medicine.  
 MILTON HELPERN, Instructor in Clinical Medicine.  
 EVELYN HOLT, Instructor in Clinical Medicine.  
 LESLIE A. HOMRICH, Instructor in Clinical Medicine.  
 SCOTT JOHNSON, Instructor in Clinical Medicine.  
 CHARLES KAUFMAN, Instructor in Clinical Medicine.  
 HENRY B. KIRKLAND, Instructor in Clinical Medicine.  
 BERTON LATTIN, Instructor in Clinical Medicine.  
 DOROTHEA LEMCKE, Instructor in Clinical Medicine.  
 LEON I. LEVINE, Instructor in Clinical Medicine.  
 ASA L. LINCOLN, Instructor in Clinical Medicine.  
 ROBERT M. LINTZ, Instructor in Clinical Medicine.  
 JANE LOCKWOOD, Instructor in Clinical Medicine.  
 VICTOR W. LOGAN, Instructor in Clinical Medicine.  
 KIRBY MARTIN, Instructor in Clinical Medicine.  
 ARTHUR M. MASTER, Instructor in Clinical Medicine.  
 ANNIE P. McCOMBS, Instructor in Clinical Medicine.  
 WILLIAM J. MERSEREAU, Instructor in Clinical Medicine.  
 ELIZABETH NICHOLLS, Instructor in Clinical Medicine.  
 DOUGLASS PALMER, Instructor in Clinical Medicine.  
 NORMAN PAPAE, Instructor in Clinical Medicine.  
 ANNA PLATT, Instructor in Clinical Medicine.  
 NORMAN PLUMMER, Instructor in Clinical Medicine.  
 ADA C. REID, Instructor in Clinical Medicine.  
 JOHN H. RICHARDS, Instructor in Clinical Medicine.  
 H. McLEOD RIGGINS, Instructor in Clinical Medicine.  
 THERESA SCANLAN, Instructor in Clinical Medicine.  
 JOHN B. SCHWEDEL, Instructor in Clinical Medicine.  
 AARON D. SPIELMAN, Instructor in Clinical Medicine.  
 JOHN W. STICKNEY, Instructor in Clinical Medicine.  
 EDWARD TOLSTOI, Instructor in Clinical Medicine.  
 MARIAN TYNDALL, Instructor in Clinical Medicine.  
 JAMES H. WHALEY, Instructor in Clinical Medicine.  
 STEPHEN WHITE, Instructor in Clinical Medicine.  
 ALEXANDER H. WILLIAMSON, Instructor in Clinical Medicine.  
 DAN H. WITT, Instructor in Clinical Medicine.  
 IRVING S. WRIGHT, Instructor in Clinical Medicine.  
 GEORGE J. YOUNG, Instructor in Clinical Medicine.  
 MORRIS ZUCKER, Instructor in Clinical Medicine.  
 DEAN CLARK, Assistant in Medicine.  
 CONSTANCE FRIESS, Assistant in Medicine.  
 THOMAS H. HAM, Assistant in Medicine.  
 JAMES S. MANSFIELD, Assistant in Medicine.  
 THEODORE W. OPPEL, Assistant in Medicine.  
 CARL MUSCHENHEIM, Assistant in Medicine.  
 WILLIAM P. THOMPSON, Assistant in Medicine.  
 ADE T. MILHORAT, Research Fellow in Medicine.

## NEUROLOGY

FOSTER KENNEDY, Professor of Clinical Neurology.  
LEWIS D. STEVENSON, Assistant Professor of Clinical Neurology.  
S. BERNARD WORTIS, Instructor in Clinical Neurology.  
LOUIS HAUSMAN, Instructor in Clinical Neurology.  
AARON BELL, Instructor in Clinical Neurology.  
ALFRED H. EHRENCLOU, Instructor in Clinical Neurology.  
PETER G. DENKER, Instructor in Clinical Neurology.

## DERMATOLOGY

HANS J. SCHWARTZ, Professor of Clinical Medicine.  
J. FRANK FRASER, Assistant Professor of Clinical Medicine.  
FIELDING L. TAYLOR, Associate in Clinical Medicine.  
RAY H. RULISON, Associate in Clinical Medicine.  
ARTHUR W. GRACE, Instructor in Medicine.  
JOSEPH AMERSBACH, Instructor in Clinical Medicine.  
WILLIAM M. ARCHER, Instructor in Clinical Medicine.  
JAMES R. BEARD, JR., Instructor in Clinical Medicine.  
ANDREW J. GILMOUR, Instructor in Clinical Medicine.  
JOHN H. HARRIS, Instructor in Clinical Medicine.  
GEORGE M. LEWIS, Instructor in Clinical Medicine.  
JULIA V. LICHTENSTEIN, Instructor in Clinical Medicine.  
HENRY D. NILES, Instructor in Clinical Medicine.  
MABEL G. SILVERBERG, Instructor in Clinical Medicine.

## GENERAL MEDICINE

Students begin their course in medicine in the third quarter of the second year with a course in physical diagnosis under Professors ROBINSON and STEWART. They are introduced to this subject by means of lectures, demonstrations and practical work on normal subjects and patients. In the fourth quarter they spend two mornings a week with patients either on the wards or in the out-patient department. Their afternoons are devoted to the course in clinical pathology given by Dr. WILLIAM J. ELSEY, Professor of Applied Pathology and Bacteriology.

During the first quarter of the third year lectures, clinics and practical demonstrations are given to the entire class in dermatology and syphilis, neuropathology and neurology. In each of the remaining three quarters of the year one-third of the class will spend all of its time on the wards as clinical clerks in medicine, for the most part at New York Hospital. However some of each group will be assigned to the Second Medical Division of Bellevue Hospital and their work will be in charge of Dr. Henry James Spencer, Director of the division. Clerks will be given cases suitable for complete study and will be expected to take histories, make physical examinations and perform the necessary laboratory tests. The bedside work will be supplemented by informal instruction, clinical pathological conferences, seminars, demonstra-



tions and formal clinics in which the students present their cases to the staff. There will be two clinics each week in medicine held from twelve to one o'clock in the college auditorium. These are intended for both third and fourth year students, but students taking their clerkships at Bellevue Hospital will not be required to attend on account of the distance between the two institutions.

The senior students will be divided into four groups with one-quarter of the college year devoted to general medicine and the medical specialties. They will spend most of their time in the out-patient department and will be assigned to sections in general medicine and special clinics, such as neurology, dermatology and syphilis, diabetes, gastro-intestinal diseases, diseases of the circulatory system, diseases of the lung, endocrine diseases, hematology, etc. The practical work with patients will be supplemented by lectures, demonstrations and seminars.

During the summer months students will be given the opportunity of taking their third year clerkships or their fourth year work in the out-patient department and in this way have more free time for elective work during the regular academic year.

**NEUROLOGY.** The Neurological Service of Bellevue Hospital under Dr. Foster Kennedy offers unusual opportunities for clinical study and special investigation. It consists of male and female wards for the study of medical and surgical neurology. In addition, the laboratory for experimental neurology under the direction of Dr. Wortis, and the laboratory for neuropathology under the direction of Dr. Stevenson, are integrated with the medical and surgical work. All these services are available for the instruction of graduate and undergraduate students. Arrangements regarding hours will be made later.

**DERMATOLOGY AND SYPHILIS.** There will be a large and active clinic at New York Hospital. Some of the beds in the medical wards will be used for teaching purposes.

Instruction in dermatology and syphilology is given in the third and fourth years. No teaching is didactic; the cutaneous diseases are demonstrated on the living subject. Abundance of material for such instruction is available, and the student can thoroughly familiarize himself with the more common as well as with the rarer diseases of the skin by actual personal touch and observation. Attention is paid particularly to the diagnosis and etiology of skin diseases, but the general principles of therapeutics are fully discussed and their application to the individual case pointed out. Practical instruction is also given in the preparation and administration of the arsphenamins, in the technic of intravenous and intramuscular injections, lumbar puncture and the various forms of physical therapy.

### ELECTIVE COURSES

During 1933-1934 one-eighth of the class will always be free for elective work. It is planned to have a variety of courses available for these students. The policy of the department is to offer several

parallel courses by different instructors, so that students may make their own selections. Opportunities will be given in the special clinics devoted to the diseases of the circulatory system, of the lungs, of metabolism, neurology, syphilis and dermatology, hematology, arthritis, allergy and gastro-intestinal disorders. There will be a number of electives in general medicine on the wards and in the out-patient department. Arrangements are being made for special work in tuberculosis at the New York State Hospital for Incipient Tuberculosis under Dr. BRAY.

It is hoped and expected that a large number of the students during their elective period will engage in research work either in the clinics or in the laboratories. Special arrangements must be made individually, but if a sufficient number of students are interested in any special laboratory work regular courses can be organized.

## OBSTETRICS AND GYNECOLOGY

HENRICUS J. STANDER, Professor of Obstetrics and Gynecology.

GEORGE G. WARD, Professor of Clinical Obstetrics and Gynecology.

HERBERT F. TRAUT, Associate Professor of Obstetrics and Gynecology.

JAMES A. HARRAR, Associate Professor of Clinical Obstetrics and Gynecology.

R. GORDON DOUGLAS, Assistant Professor of Obstetrics and Gynecology.

C. FREDERIC JELLINGHAUS, Assistant Professor of Clinical Obstetrics and Gynecology.

HERVEY C. WILLIAMSON, Assistant Professor of Clinical Obstetrics and Gynecology.

LUCIUS A. WING, Assistant Professor of Clinical Obstetrics and Gynecology.

JOHN F. McGRATH, Assistant Professor of Clinical Obstetrics and Gynecology.

KATHERINE KUDER, Instructor in Obstetrics and Gynecology.

ANDREW A. MARCHETTI, Instructor in Obstetrics and Gynecology.

CHARLES M. McLANE, Instructor in Obstetrics and Gynecology.

OGDEN F. CONKEY, Instructor in Clinical Obstetrics and Gynecology.

LYNN L. FULKERSON, Instructor in Clinical Obstetrics and Gynecology.

WILLIAM H. HAWKINS, Instructor in Clinical Obstetrics and Gynecology.

HOWARD S. McCANDLISH, Instructor in Clinical Obstetrics and Gynecology.

MEYER ROSENTOHN, Instructor in Clinical Obstetrics and Gynecology.

KYLE B. STEELE, Instructor in Clinical Obstetrics and Gynecology.

JOSEPH N. NATHANSON, Instructor in Clinical Obstetrics and Gynecology.

EDWARD H. DENNEN, Instructor in Clinical Obstetrics and Gynecology.

ARTHUR V. GREELEY, Assistant in Obstetrics and Gynecology.

EMMETT K. MECHLER, Assistant in Obstetrics and Gynecology.  
JAMES B. GULICK, Assistant in Obstetrics and Gynecology.  
G. WILSON HUNTER, Assistant in Obstetrics and Gynecology.  
CHARLES H. NICHOLS, Assistant in Obstetrics and Gynecology.  
JOHN B. PASTORE, Assistant in Obstetrics and Gynecology.  
ROBERT L. CRAIG, Assistant in Clinical Obstetrics and Gynecology.  
OSCAR GLASSMAN, Assistant in Clinical Obstetrics and Gynecology.  
JOHN A. O'REGAN, Assistant in Clinical Obstetrics and Gynecology.  
NELSON B. SACKETT, Assistant in Clinical Obstetrics and Gynecology.  
JACOB T. SHERMAN, Assistant in Clinical Obstetrics and Gynecology.  
FRANK R. SMITH, Assistant in Clinical Obstetrics and Gynecology.  
CHARLES T. SNYDER, Assistant in Clinical Obstetrics and Gynecology.

## I. THIRD YEAR

**COURSE 1. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY.** This course consists of lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of the diseases of the pelvic structures.

Wednesday and Friday, 2-3 P. M.; first, second, and third quarters, to the whole class. Professors STANDER, TRAUT, and DOUGLAS.

**COURSE 2. PRACTICAL INSTRUCTION.** The courses offered are (a) palpation; (b) pelvic examination; (c) manikin exercises; (d) obstetrical and gynecological pathology; (e) obstetrical and gynecological bacteriology and isolation technic; (f) demonstrations; (g) dispensary clinics.

To one-third of the class, instruction will be given every morning from 9-12, except Saturday, throughout one quarter.

**COURSE 3. WARD ROUNDS.** Monday, Wednesday, Friday, 9-10 A. M. Professor STANDER and staff.

**COURSE 4. OBSTETRICAL AND GYNECOLOGICAL CLINICS.** Tuesdays, 12-1 P. M., throughout the year. Professors STANDER, WARD, HARRAR, JELLINGHAUS, WILLIAMSON, McGRATH, TRAUT, and DOUGLAS.

Total hours, 188.

## II. FOURTH YEAR

**COURSE 1. OBSTETRICAL AND GYNECOLOGICAL CLINICS.** Tuesday, 12-1 P. M., throughout the year, together with the third year class.

**COURSE 2. MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY.** This course comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will live in the Woman's Clinic and the Berwind Clinic for a period of two months, during which time he will act as a clinical assistant in the obstetrical and gynecological departments, hospital wards, and delivery and operating rooms. He will be provided with sleeping accommodations, but not with board.

The practical work includes the prenatal care of many patients, attending them in labor, their delivery, as well as following them throughout the course of the puerperium. Facilities will also be provided for the student to examine gynecological patients, and to follow these patients through diagnostic and therapeutic procedures.

Two months' residence throughout the quarter. Minimum, 344 hours. Because of the nature of the service, night and holiday work is required.

### ELECTIVE COURSES

Course 1. PRACTICAL OBSTETRICS AND GYNECOLOGY. A certain number of students will be accepted for periods of one month to serve as assistants in the clinic.

Course 2. To a limited number of students elective research courses will be offered in the chemical, pathological, and bacteriological laboratories of the department throughout the year.

### PEDIATRICS

OSCAR M. SCHLOSS, Professor of Pediatrics.  
LYNNE A. HOAG, Associate Professor of Pediatrics.  
SAMUEL Z. LEVINE, Associate Professor of Pediatrics.  
JESSE F. SAMMIS, Assistant Professor of Clinical Pediatrics.  
LOUIS C. SCHROEDER, Assistant Professor of Clinical Pediatrics.  
PHILIP M. STIMSON, Assistant Professor of Clinical Pediatrics.  
MAY G. WILSON, Assistant Professor of Clinical Pediatrics.  
THOMAS C. GOODWIN, Associate in Pediatrics.  
MILTON J. SENN, Associate in Pediatrics.  
ARTHUR F. ANDERSON, Associate in Clinical Pediatrics.  
ROBERT O. DUBOIS, Associate in Clinical Pediatrics.  
LUDWIG SCHOENTHAL, Associate in Clinical Pediatrics.  
CARL H. SMITH, Associate in Clinical Pediatrics.  
WILLIAM S. ANDERSON, Instructor in Pediatrics.  
HARRY GORDON, Instructor in Pediatrics.  
HELEN HARRINGTON, Instructor in Pediatrics.  
VERNON W. LIPPARD, Instructor in Pediatrics.  
MARJORIE A. WHEATLEY, Instructor in Pediatrics.  
M. BERNARD BRAHDY, Instructor in Clinical Pediatrics.  
FREDERICK C. HUNT, Instructor in Clinical Pediatrics.  
CHARLES H. O'REGAN, Instructor in Clinical Pediatrics.  
WILL C. SPAIN, Instructor in Clinical Pediatrics.  
T. DURLAND VAN ORDEN, Instructor in Clinical Pediatrics.  
THOMAS E. WALDIE, Instructor in Clinical Pediatrics.  
MABEL H. GROSVENOR, Assistant in Pediatrics.  
JOHN E. GUNDY, Assistant in Pediatrics.  
HEDWIG KOENIG, Assistant in Pediatrics.  
WILLIAM R. SANDUSKY, Assistant in Pediatrics.  
MILTON I. LEVINE, Assistant in Clinical Pediatrics.  
ELEANOR MARPLES, Research Assistant in Pediatrics.  
BENJAMIN McL. SPOCK, Research Assistant in Pediatrics.

**THIRD YEAR.** A clinical lecture once a week throughout the entire school year, presenting cases illustrating diseases peculiar to early life. Groups of students are assigned to the wards where they are given opportunity to examine sick infants and are given instruction in diagnosis and treatment. Instruction in contagious diseases is given at the Willard Parker Hospital. Total hours, 115.

**FOURTH YEAR.** Groups of students are on duty in the out-patient department. Here they gain experience in history taking, physical examination, and treatment. Total hours, 68.

### ELECTIVE COURSES

Elective students serve as clinical clerks on the wards and are on duty continuously for a period of one month.

### PSYCHIATRY

GEORGE S. AMSDEN, Professor of Psychiatry.  
 MORTIMER W. RAYNOR, Professor of Clinical Psychiatry.  
 GEORGE H. KIRBY, Professor of Clinical Psychiatry.  
 PHYLLIS GREENACRE, Professor of Clinical Psychiatry.  
 GEORGE W. HENRY, Associate Professor of Psychiatry.  
 HARRY M. TIEBOUT, Associate Professor of Psychiatry.  
 JOSEPH P. EIDSON, Assistant Professor of Clinical Psychiatry.  
 SMILEY BLANTON, Assistant Professor of Clinical Psychiatry.  
 CARL A. BINGER, Assistant Professor of Clinical Psychiatry.  
 CHARLES D. RYAN, Instructor in Psychiatry.  
 WILLIAM H. DUNN, Instructor in Psychiatry.  
 NORVELLE C. LAMAR, Instructor in Psychiatry.  
 VALER BARBU, Instructor in Psychiatry.  
 B. MILDRED EVANS, Instructor in Psychiatry.  
 GEORGE S. STEVENSON, Instructor in Clinical Psychiatry.  
 CHARLES G. MCGAFFIN, Instructor in Clinical Psychiatry.  
 MICHAEL P. LONERGAN, Instructor in Clinical Psychiatry.  
 EDWARD B. ALLEN, Instructor in Clinical Psychiatry.  
 HILDA WOOD EIDSON, Instructor in Clinical Psychiatry.  
 MURIEL IVIMEY, Instructor in Clinical Psychiatry.  
 GERALD R. JAMEISON, Instructor in Clinical Psychiatry.  
 ELIZABETH KILPATRICK, Instructor in Clinical Psychiatry.  
 S. STANLEY KING, Instructor in Clinical Psychiatry.  
 LESLIE E. LUEHRS, Instructor in Clinical Psychiatry.  
 GEORGE E. SPRAGUE, Instructor in Clinical Psychiatry.  
 HANS SYZ, Instructor in Clinical Psychiatry.  
 JAMES H. WALL, Instructor in Clinical Psychiatry.  
 R. RALPH HARLOW, Assistant in Clinical Psychiatry.  
 JOEL M. HILL, Assistant in Clinical Psychiatry.  
 CHARLOTTE MUNN, Assistant in Clinical Psychiatry.  
 ALEXANDER J. MURCHISON, Assistant in Clinical Psychiatry.  
 BETTINA WARBURG, Assistant in Clinical Psychiatry.  
 JOHN A. P. MILLET, Fellow in Psychiatry.

Instruction in Psychiatry is given in each of the four college years. In the first year thirty-three hours are devoted to psychobiology. This course seeks to acquaint the student with those aspects of comparative psychology and of the psychology of the individual which are not only of psychiatric importance, but which are equally important for an understanding of the individual in an approach from any other medical point of view. The focusing point of the course is the study of the personality.

In the second year a course of 24 hours is devoted to psychopathology. This course is so planned as to bring before the student those tendencies in the race and the individual which lend themselves to faulty adjustment and those specific mechanisms by which maladjustment is favored and hindered. Special attention is given to manifestations of emotional and mental difficulties which may under circumstances arise in the average individual and in persons suffering from any form of somatic disorder or disease. The object of the course is to provide the student with a broad conception of personality and behavior deviation, as well as to serve as an introduction to psychiatry. Instruction in methods of examination and history taking is also provided.

In the third year each student serves 63 hours in the in-patient division of the psychiatric clinic of the New York Hospital. This department, newly established for the investigation, prevention, and curative treatment of emotional and mental disorders, is a private hospital with a capacity of 110 beds and forms one unit of the New York Hospital-Cornell Medical College Association. As far as possible only one student is assigned to an instructor for whom he acts as clinical clerk. The clinical service includes an opportunity to observe and study manifestations not only in adults, but in the pre-school, the pre-adolescent, and the adolescent individual.

Instruction during the fourth year is given chiefly in the out-patient division of the psychiatric clinic of the New York Hospital. Here the instructor also devotes himself to a single student who serves as far as possible as an assistant. The purpose is to give the student an opportunity to observe and take part in a type of psychiatric practice equivalent to that carried on by a sound private practitioner of psychiatry. Some instruction is given at Bloomingdale Hospital at White Plains, New York, a private psychiatric hospital which is a part of the Society of the New York Hospital. Opportunity is afforded also in both the third and fourth years to become acquainted with special forms and degrees of intensity of psychosis in the extensive clinical service of the Manhattan State Hospital, Ward's Island, New York City.

A special clinical demonstration with summary discussions is held every week for the fourth year class. Elective courses are provided for undergraduates during the fourth year. Graduate instruction is being planned, based upon a comprehensive plan for a prolonged and thorough training in psychiatry. 82 hours.

## SURGERY

- GEORGE J. HEUER, Professor of Surgery.  
 JOSHUA E. SWEET, Professor of Experimental Surgery.  
 N. CHANDLER FOOT, Professor of Surgical Pathology.  
 CHARLES E. FARR, Professor of Clinical Surgery.  
 JOHN A. HARTWELL, Professor of Clinical Surgery.  
 BURTON J. LEE, Professor of Clinical Surgery.  
 HENRY H. M. LYLE, Professor of Clinical Surgery.  
 EUGENE H. POOL, Professor of Clinical Surgery.  
 POL N. CORYLLOS, Professor of Clinical Surgery.  
 WILLIAM DEW. ANDRUS, Associate Professor of Surgery.  
 RALPH F. BOWERS, Assistant Professor of Surgery.  
 RICHARD H. MEAGHER, Assistant Professor of Surgery.  
 SEWARD ERDMAN, Assistant Professor of Clinical Surgery.  
 GUILFORD S. DUDLEY, Assistant Professor of Clinical Surgery.  
 JOHN C. A. GERSTER, Assistant Professor of Clinical Surgery.  
 RUSSEL H. PATTERSON, Assistant Professor of Clinical Surgery.  
 MORRIS K. SMITH, Assistant Professor of Clinical Surgery.  
 BYRON STOOKEY, Assistant Professor of Clinical Surgery.  
 JOHN A. VIETOR, Assistant Professor of Clinical Surgery.  
 J. HERBERT CONWAY, Instructor in Surgery.  
 FRANK N. GLENN, Instructor in Surgery.  
 HERBERT BERGAMINI, Instructor in Clinical Surgery.  
 JACOB BUCKSTEIN, Instructor in Clinical Radiology.  
 HENRY S. F. COOPER, Instructor in Clinical Surgery.  
 NELSON W. CORNELL, Instructor in Clinical Surgery.  
 PAUL A. DINEEN, Instructor in Clinical Surgery.  
 JOHN H. GARLOCK, Instructor in Clinical Surgery.  
 A. LEROY JOHNSON, Instructor in Clinical Surgery (Dentistry).  
 JOSEPH E. J. KING, Instructor in Clinical Surgery.  
 LEILA C. KNOX, Instructor in Surgical Pathology.  
 FRANK J. MCGOWAN, Instructor in Clinical Surgery.  
 EDWARD W. SAUNDERS, Instructor in Clinical Surgery, and Given  
 Fellow in Surgical Research.  
 RUFUS E. STETSON, Instructor in Clinical Surgery.  
 FRANCIS A. SUTHERLAND, Instructor in Clinical Surgery.  
 JOHN E. SUTTON, Jr., Instructor in Clinical Surgery.  
 PRESTON A. WADE, Instructor in Clinical Surgery.  
 W. MORRIS WEEDEN, Instructor in Clinical Surgery.  
 ROBERT A. WISE, Instructor in Clinical Surgery.  
 FRANK C. YEOMANS, Instructor in Clinical Surgery.  
 COURTNEY C. BISHOP, Assistant in Surgery.  
 RICHARD D. BULLARD, Assistant in Surgery.  
 WILLIAM A. COOPER, Assistant in Surgery.  
 GEORGE R. DUNLOP, Assistant in Surgery.  
 MERTON L. GRISWOLD, Assistant in Surgery.  
 FLOYD H. BRAGDEN, Assistant in Surgery.

CRANSTON W. HOLMAN, Assistant in Surgery.  
L. G. KENDALL, Assistant in Surgery.  
EDMUND G. LAIRD, Assistant in Surgery.  
WILLIAM DE G. MAHONEY, Assistant in Surgery.  
BRONSON S. RAY, Assistant in Surgery.  
ROSE ANDRÉ, Assistant in Clinical Surgery.  
GEORGE L. BIRNBAUM, Assistant in Clinical Surgery.  
JOHN S. DAVIS, Assistant in Clinical Surgery.  
WADE DULEY, Assistant in Clinical Surgery.  
ROBERT K. FELTER, Assistant in Clinical Surgery.  
ELLA M. HEDIGER, Assistant in Clinical Surgery.  
D. REES JENSEN, Assistant in Clinical Surgery.

#### OPHTHALMOLOGY

BERNARD SAMUELS, Professor of Clinical Surgery.  
MILTON L. BERLINER, Instructor in Clinical Surgery.  
TRUMAN L. BOYES, Instructor in Clinical Surgery.  
CHARLES A. DRAKE, Instructor in Clinical Surgery.  
HARRY EGGERS, Instructor in Clinical Surgery.

#### ORTHOPEDIC SURGERY

CHARLTON WALLACE, Professor of Clinical Surgery.  
IRVIN BALENSWEIG, Instructor in Clinical Surgery.  
KRISTIAN G. HANSSON, Instructor in Clinical Surgery.  
CHARLES L. PLUNKETT, Instructor in Clinical Surgery.

#### OTOLARYNGOLOGY

ARTHUR PALMER, Assistant Professor of Clinical Surgery; Acting Head,  
Department of Otolaryngology.  
GERVAIS W. McAULIFFE, Assistant Professor of Clinical Surgery.  
JACOB APPLEBAUM, Instructor in Clinical Surgery.  
EMMETT C. FITCH, Instructor in Clinical Surgery.  
THOMAS J. GARRICK, Instructor in Clinical Surgery.  
RUSSELL C. GROVE, Instructor in Clinical Surgery.  
S. FARRAR KELLEY, Instructor in Clinical Surgery.  
JAMES O. MACDONALD, Instructor in Clinical Surgery.  
THOMAS J. MULCAHY, Instructor in Clinical Surgery.  
EDGAR M. POPE, Instructor in Clinical Surgery.  
WILLIAM H. AYRES, Assistant in Clinical Surgery.  
ANNE S. BELCHER, Assistant in Clinical Surgery.  
HERBERT GRAEBNER, Assistant in Clinical Surgery.  
ALBERT G. RAPP, Assistant in Clinical Surgery.  
FERNAND VISZTREICH, Assistant in Clinical Surgery.

#### UROLOGIC SURGERY

EDWARD L. KEYES, Professor of Clinical Surgery.  
A. RAYMOND STEVENS, Associate Professor of Clinical Surgery.  
HOWARD S. JECK, Assistant Professor of Clinical Surgery.



MIGUEL ALVAREZ, Instructor in Clinical Surgery.  
BENJAMIN S. BARRINGER, Instructor in Clinical Surgery.  
WILLIAM R. DELZELL, Instructor in Clinical Surgery.  
THOMAS P. BURRUS, Assistant in Clinical Surgery.  
ANNE E. KUHNER, Assistant in Clinical Surgery.  
EDWARD JACOBS, Assistant in Clinical Surgery.  
RUSSELL S. FERGUSON, Assistant in Clinical Surgery.  
ALLISTER M. McLELLAN, Assistant in Clinical Surgery.  
LEO MARQUITH, Assistant in Clinical Surgery.  
PETER J. RIABOFF, Assistant in Clinical Surgery.  
H. E. S. ROOT, Assistant in Clinical Surgery.  
WENDELL J. WASHBURN, Assistant in Clinical Surgery.

### GENERAL SURGERY

I. THIRD YEAR. The teaching of surgery begins in the first quarter of the third year during which time the students have formal exercises in surgical pathology and the surgical specialties as an introduction to ward work in general surgery, urology, orthopedics, ophthalmology and otolaryngology. During this quarter the entire class attends a course illustrating the principles of operative surgery. This consists of a series of exercises carried out by the students upon living animals, emphasizing surgical cleanliness, aseptic technic, the control of hemorrhage, the healing of wounds, anaesthesia, etc. The exercises are supplemented by reading, conferences, and pathological demonstrations.

In the following three quarters each third of the class in rotation spends one quarter in the surgical wards in the capacity of clinical clerks. During this period the student gains experience in history taking, physical examination and routine laboratory examinations, and is brought into contact with patients with general surgical, urological, orthopedic, ophthalmological and otolaryngological conditions. The routine teaching consists of ward visits in general surgery and the surgical specialties, together with assigned reading and conferences. In this teaching the facilities of Second Surgical Division, Bellevue Hospital, St. Luke's, Memorial, St. Mary's, and other special hospitals are utilized, in addition to those of the New York Hospital. Total hours, 417 including surgical pathology (36) and surgical specialties.

II. FOURTH YEAR. Each student spends one quarter in the out-patient department of the surgical service and the allied specialties. The morning hours are devoted to the surgical clinic and the afternoon hours to the special clinics of urology, orthopedics, ophthalmology and otolaryngology, with the exception of a two-week period during which the student is assigned to the operating room and is given intensive instruction in anesthesia. During this quarter the student is also expected to follow in the wards of the hospital those patients admitted from the out-patient department. The routine teaching consists of conferences, clinics, and assigned reading.

A surgical clinic is held one day a week at the noon hour for the students of the third and fourth years. Total hours, 268.

### OPHTHALMOLOGY

During the first quarter of the third year the entire class is instructed in the laboratory in the microscopy of the eye by DR. SAMUELS. In addition to normal histology, the pathology of such important diseases as uveitis, glaucoma, intra-ocular tumors, tuberculosis, injuries and simple ophthalmia are covered. During this quarter also the entire class receives a series of formal exercises in ophthalmology as a further introduction to their clinical work supplemented by exercises on the wards and in the out-patient department.

During the fourth year the student is assigned for a period of time to the ophthalmological out-patient department and in addition has the opportunity of taking further work in this subject during his elective period.

### ORTHOPEDIC SURGERY

During the first quarter of the third year there are a number of formal exercises in this subject, which serve as an introduction to the clinical work. These are supplemented by the presentation of interesting cases on the wards and in the out-patient department during the remainder of the third and fourth years.

### OTOLARYNGOLOGY

In the first quarter of the third year students receive instruction in the examination of the ear, nose, and throat. Anatomy of the head is reviewed and exercises in instrumentation are given. Clinical lectures, illustrated by lantern slides and by the presentation of cases, are also given during this period. In addition the student is assigned for a period to the otolaryngological out-patient department and has the opportunity to spend further time in this subject during his elective term.

### UROLOGY

A number of clinical lectures in this subject are given during the first quarter of the third year, and during the remainder of this and the following year the work is supplemented by the presentation of cases in the wards and the out-patient department.

In the fourth year the student is assigned for a period to the urological out-patient department, and has further opportunity to pursue this subject during the elective period.

### ELECTIVE COURSES

Courses are offered in advanced general surgery, surgical pathology, experimental surgery, neuro-surgery, thoracic surgery, and in the specialties of surgery; urology, orthopedic surgery, ophthalmology and otolaryngology. Elective work combined with medicine is also offered in special clinics in the out-patient department. More detailed

information regarding these electives may be had by consulting the head of the surgical department.

### COURSE OFFERED TO SPECIAL STUDENTS

A special course in surgery based upon the resident system is offered to a limited number of physicians who are graduates of approved medical schools and who have completed one year's internship or its equivalent in an approved hospital. Detailed information regarding this course will be furnished on request by the head of the surgical department.

### PUBLIC HEALTH AND PREVENTIVE MEDICINE

JOHN C. TORREY, Professor of Epidemiology and Acting Head of the Department of Public Health and Preventive Medicine.

MORTON C. KAHN, Assistant Professor of Public Health and Preventive Medicine.

WALTER C. KLOTZ, Assistant Professor of Public Health and Preventive Medicine.

THOMAS T. MACKIE, Research Associate in Public Health and Preventive Medicine.

RALPH W. NAUSS, Instructor in Public Health and Preventive Medicine.

ELIZABETH MONTU, Research Assistant in Public Health and Preventive Medicine.

This is a comprehensive course dealing with the fundamental factors concerned in the origin, increase and control of communicable and non-communicable diseases. It is intended to familiarize the student with the opportunities for disease prevention through public health organizations and in private practice, both in urban and rural communities. Among the subjects discussed in a series of lectures are environmental control, sources and modes of infection, specific and non-specific prophylaxis, vital statistics and public health administration. Many of these subjects are illustrated by laboratory and field demonstrations. Minimum, 96 hours.

Instruction in the clinical aspects of preventive medicine is also given in connection with the courses in medicine, surgery, obstetrics, pediatrics, and the specialties.

### ELECTIVE COURSES

Course 1. **EPIDEMIOLOGY.** A study of the factors and principles concerned in the origin, spread and abatement of the more important communicable diseases as illustrated by past and, when possible, current outbreaks. Collection of epidemiological data and statistical analyses. Conferences. Hours to be arranged.

Course 2. **MEDICAL ZOOLOGY AND PARASITOLOGY.** This course is intended to supplement and extend the required work in this field.

Diagnosis, life histories of parasites and their vectors, and control measures are considered. Laboratory work and conferences. Hours to be arranged.

### RADIOLOGY

HARRY M. IMBODEN, Professor of Clinical Radiology.

JOHN R. CARTY, Associate Professor of Radiology.

CORNELIUS V. KILBANE, Assistant Professor of Radiology.

SYDNEY WEINTRAUB, Assistant Professor of Clinical Radiology.

E. FORREST MERRILL, Instructor in Clinical Radiology.

STEPHEN WHITE, Instructor in Clinical Radiology.

IRVING SCHWARTZ, Instructor in Clinical Radiology.

### RADIOLOGY AND RADIOTHERAPY

This course is planned to give an introduction to the fundamentals of radiology in order that the student may more intelligently utilize this aid to diagnosis and therapy. The course consists of didactic lectures and section work. Emphasis will be laid on instruction given in connection with the clinical findings. New methods in diagnosis and therapy will be discussed, and the limitations and scope of the particular method will be stressed.

The lectures will begin with a consideration of the principles of the physics involved, followed by a discussion of the findings in the various systems on the fluoroscopic screen and film.

Radiotherapy will be discussed, particularly the indications for and limitations of this method of treatment in various pathological conditions. Special emphasis will be laid on the use of x-ray therapy as a diagnostic measure. Attention will also be paid to the use of x-ray therapy in non-malignant conditions.

### MEDICAL JURISPRUDENCE

An elective course of lectures is offered to members of the fourth year class in the third and fourth quarters of the senior year. The course covers autopsy technique in medico-legal cases, the autopsy protocol, and laboratory methods for establishing the proof of the cause of death in cases of accident, suicide, and homicide; it deals with the forensic aspect of the subject in cases of indemnity, liability, and criminal prosecution.

### MILITARY SCIENCE AND TACTICS

THOMAS G. TOUSEY, Major, M.C., U.S. Army, Professor of Military Science and Tactics.

The elective course in military science and tactics provides an opportunity for those students who desire to broaden their training to include a knowledge of military medicine and surgery and preventive medicine. The course is divided into a basic and an advanced course. The basic course is given during the first and second college years and

includes subcourses in military policy, organization and tactics, organization and functions of the Medical Department of the Army, first aid, hygiene, and the sanitation of camps.

The advanced course is given during the third and fourth college years. Students electing to take the advanced course sign a contract with the Federal Government that they will complete the course and are paid, while taking the course, at the rate of about \$7.50 a month during the college session and 70 cents a day during the six weeks Summer Training Camp which all advanced course students are required to attend. The advanced course includes the following subjects: the spread and control of communicable diseases, water purification, waste disposal, war medicine, war surgery, chemical warfare, aviation medicine, hospitals, hospitalization, duties of Reserve Officers, and mobilization duties.

Upon receiving the degree of Doctor of Medicine, those students who have successfully completed the advanced course in Military Science and Tactics are offered commissions as First Lieutenants in the Medical Section, Officers' Reserve Corps of the Army of the United States. Members of the second-year advanced course are eligible to apply for internship in United States Army general hospitals.

## FIRST-YEAR SCHEDULE

1933-34

## FIRST TRIMESTER

SEPT. 25-DEC. 22

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Anatomy	Anatomy	Anatomy	Anatomy	Anatomy	Anatomy
10-11						
11-12						
12-1						
2-3	Histology	Anatomy	Histology	Biochemistry	Histology	
3-4						
4-5						
		Biochemistry		Biochemistry	Biochemistry	
			Mil. Sci.*	(Spec. Lect.)		

## SECOND TRIMESTER

JAN. 3-MARCH 10

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Histology	Histology	Histology	Biochemistry	Histology	Histology
10-11				Anatomy		
11-12						
12-1	Anatomy	Biochemistry	Anatomy	Biochemistry	Anatomy	
2-3	Anatomy	Biochemistry	Anatomy	Biochemistry	Anatomy	
3-4						
4-5						
			Mil. Sci.*	(Spec. Lect.)		

## THIRD TRIMESTER

MARCH 12-MAY 26

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Neuro-anatomy	Biochemistry	Psychobiology		Neuro-anatomy
10-11				Neuro-anatomy		
11-12						
12-1		Physiology		Physiology	Physiology	Physiology
2-3	Psychobiology	Physiology	Psychobiology	Physiology	Physiology	
3-4	Library Lectures**					
4-5			Mil. Sci.*	(Spec. Lect.)		

\*Elective.

(-) When scheduled.

\*\*Three lectures only.

## SECOND-YEAR SCHEDULE 1933-34

### FIRST QUARTER

SEPT. 25-NOV. 21

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Physiology	Physiology	Physiology	Physiology	Physiology	Mil. Sci.*
10-11	Physiology	Pharmacology	Physiology	Pharmacology	Physiology	Pharmacology
11-12						
12-1						
2-3	Bacteriology		Bacteriology	(Spec. Lect.)	Bacteriology	
3-4						
4-5						

### SECOND QUARTER

NOV. 22-JAN. 31

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9-10	Pathology	Pharmacology	Pathology	Pharmacology	Pathology	Pathology		
10-11								
11-12				Mil. Sci.*				
12-1								
2-3	Bacteriology		Bacteriology	Bacteriology				
3-4								
4-5						(Spec. Lect.)		

### THIRD QUARTER

FEB. 1-MARCH 29

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9-10	Pathology	Pathology	Pathology	Pathology	Pathology	Pathology		
10-11								
11-12								
12-1								
2-3	Physical Diagnosis		Physical Diagnosis					
3-4						Mil. Sci.*	Physical Diagnosis	
4-5						(Spec. Lect.)		

### FOURTH QUARTER

APRIL 2-MAY 26

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Physical Diagnosis**		Physical Diagnosis**	Physical Diagnosis**	Topographical Anatomy	Physical Diagnosis**
10-11						
11-12		Mil. Sci.*				
12-1	Psychopath.	Clin. Path.	Psychopath.	Clin. Path.	Psychopath.	
2-3	Clinical Pathology	Clinical Pathology	Clinical Pathology	Clinical Pathology (Spec. Lect.)	Clinical Pathology	
3-4						
4-5						

\*Elective.

(-)When scheduled.

\*\*Group A, Monday and Thursday; Group B, Wednesday and Saturday. Alternate periods for each group free.

## THIRD-YEAR SCHEDULE

1933-34

FIRST QUARTER

SEPT. 25-NOV. 21

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Surgical Pathology 4 weeks	Operative Surgery	Surgical Pathology 4 weeks	Pediatrics Inf. Feeding	Surgical Pathology 4 weeks	Urology
10-11	Neuro-pathology 4 weeks**		Neuro-pathology 4 weeks**		Neuro-pathology 4 weeks**	
11-12						
12-1	Medicine	Ob. and Gyn.	Pediatrics	Medicine	Surgery	
2-3	Radiology		Ob. and Gyn.	Otolaryn- gology	Ob. and Gyn.	
3-4	Dermatol'y	Ophthalmol'y	Mil. Sci.*		Orthopedics	
4-5		Ophthalmol. Pathology	(Spec. Lect.)			

\*Elective.

(-)When scheduled.

\*\*During this period two hours will be devoted to Neuropathology and one hour to Clinical Neurology.

## SECOND, THIRD, AND FOURTH QUARTERS

NOV. 22-JAN. 31

FEB. 1-MARCH 29

APRIL 2-MAY 26

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Group A: Medicine (2), Surgery (3), Obstetrics, Pediatrics, Psychiatry (4) Group B: Surgery (2), Obstetrics, Pediatrics, Psychiatry (3), Medicine (4) Group C: Obstetrics, Pediatrics, Psychiatry (2), Medicine (3), Surgery (4)					
10-11	<i>The figure in parenthesis indicates the quarter in which the subject is to be taken</i>					
11-12						
12-1	Medicine	Ob. and Gyn.	Pediatrics	Medicine	Surgery	Mil. Sci.*
2-3			Ob. and Gyn.†		Ob. and Gyn.†	
3-4			Groups as above			
4-5	Clin. Path. Conference			(Spec. Lect.)		

\*Elective.

(-)When scheduled.

†Second and Third Quarters only.



## THIRD-YEAR CLASS

*Detailed Schedules for Obstetrics, Pediatrics, and Psychiatry*

## SCHEDULE I

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Obstetrics and Gynecology			Pediatrics	Obstetrics and Gynecology	Psychiatry
10-11						
11-12						
12-1	Medicine	Ob. and Gyn.	Pediatrics	Medicine	Surgery	Mil. Sci.*
2-3	Pediatrics	Psychiatry	Ob. and Gyn.†	Psychiatry	Ob. and Gyn.†	
3-4			Pediatrics		Pediatrics	
4-5	Clin. Path. Conference			(Spec. Lect.)		

## SCHEDULE II

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Obstetrics and Gynecology					Pediatrics
10-11						
11-12						
12-1	Medicine	Ob. and Gyn.	Pediatrics	Medicine	Surgery	Mil. Sci.*
2-3	Psychiatry	Pediatrics	Ob. and Gyn.†	Pediatrics	Ob. and Gyn.†	
3-4			Psychiatry		Psychiatry	
4-5	Clin. Path. Conference			(Spec. Lect.)		

Group C-1: Schedule I, Nov. 22-Dec. 22; Schedule II, Jan. 3-Jan. 31.

Group C-2: Schedule II, Nov. 22-Dec. 22; Schedule I, Jan. 3-Jan. 31.

Group B-1: Schedule I, Feb. 1-March 1; Schedule II, March 2-March 29.

Group B-2: Schedule II, Feb. 1-March 1; Schedule I, March 2-March 29.

Group A-1: Schedule I, April 2-April 28; Schedule II, April 30-May 26.

Group A-2: Schedule II, April 2-April 28; Schedule I, April 30-May 26.

\*Elective.

(-)When scheduled.

†Second and Third Quarters only.

## FOURTH-YEAR SCHEDULE

## FIRST AND SECOND QUARTERS

1933-34

SEPT. 25-NOV. 21

NOV. 22-JAN. 31

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Group A: Medicine (1), Obstetrics and Gynecology (2) Group B: Surgery (1), Pediatrics, Psychiatry, Elective (2) Group C: Pediatrics, Psychiatry, Elective (1), Surgery, (2) Group D: Obstetrics and Gynecology (1), Medicine (2)  <i>The figure in parenthesis indicates the quarter in which the subject is to be taken</i>					Public Health
10-11						
11-12						
12-1						
2-3	Medicine	Ob. and Gyn.	Psychiatry	Medicine	Surgery	
3-4	Groups as above					
4-5						
5-6	Clin. Path. Conference		Public Health	(Spec. Lect.)	Public Health	
		Mil. Sci.*				

## THIRD AND FOURTH QUARTERS

FEB. 1-MARCH 29

APRIL 2-MAY 26

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Group A: Pediatrics, Psychiatry, Elective (3), Surgery (4) Group B: Obstetrics and Gynecology (3), Medicine (4) Group C: Medicine (3), Obstetrics and Gynecology (4) Group D: Surgery (3), Pediatrics, Psychiatry, Elective (4)  <i>The figure in parenthesis indicates the quarter in which the subject is to be taken</i>					
10-11						
11-12						
12-1						
2-3	Medicine	Ob. and Gyn.	Psychiatry	Medicine	Surgery	
3-4	Groups as above					
4-5	Clin. Path. Conference	Med. Juris.*		(Spec. Lect.)		
5-6		Mil. Sci.*				

## FOURTH-YEAR CLASS

## DETAILED SCHEDULE FOR PEDIATRICS AND PSYCHIATRY

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pediatrics		Psychiatry	Pediatrics		Public Health 1st and 2nd quarters  Pediatrics 3rd and 4th quarters
10-11						
11-12						
12-1	Medicine   Ob. and Gyn.		Psychiatry	Medicine	Surgery	
2-3	Psychiatry		Pediatrics	Psychiatry		
3-4						
4-5	Clin. Path. Conference	(Med. Juris.*)	Public Health†	(Spec. Lect.)	Public Health†	
5-6		Mil. Sci.*				

Group C-1: Pediatrics and Psychiatry, Sept. 26-Oct. 23; Electives, Oct. 24-Nov. 21.

Group C-2: Electives, Sept. 26-Oct. 23; Pediatrics and Psychiatry, Oct. 24-Nov. 21.

Group B-1: Pediatrics and Psychiatry, Nov. 22-Dec. 22; Electives, Jan. 3-31.

Group B-2: Electives, Nov. 22-Dec. 22; Pediatrics and Psychiatry, Jan. 3-31.

Group A-1: Pediatrics and Psychiatry, Feb. 1-Mar. 1; Electives, Mar. 2-29.

Group A-2: Electives, Feb. 1-Mar. 1; Pediatrics and Psychiatry, Mar. 2-29.

Group D-1: Pediatrics and Psychiatry, Apr. 2-Apr. 28; Electives, Apr. 30-May 26.

Group D-2: Electives, Apr. 1-Apr. 28; Pediatrics and Psychiatry, Apr. 30-May 26.

\*Elective.

(-)When scheduled.

†First and Second Quarters only.

## GRADUATE STUDENTS AND SPECIAL STUDENTS

Cornell University Medical College is primarily concerned with preparing young men and women for the degree of Doctor of Medicine, and does not choose to emphasize work for degrees of other character. There are, however, from time to time unusual opportunities for more advanced work than that required for the degree of Doctor of Medicine. This work may be special work leading to no degree, inviting those singularly fitted for such studies, or work presented by the curriculum of the Graduate School.

To avoid misunderstanding in the use of the terms *Graduate School*, *Graduate Students*, *Post-Graduate Students*, and *Special Students*, the following statement is made:

Students not pursuing the regular courses leading to the degree of Doctor of Medicine may be—

I. STUDENTS OF THE GRADUATE SCHOOL. Students in Cornell University Graduate School (for announcement of which, see page 93) may be of two classes: (a) those registered for an advanced degree and (b) those not registered for an advanced degree.

II. SPECIAL STUDENTS. All students *not registered in Cornell University Graduate School and not registered for the M.D. degree* are SPECIAL STUDENTS. These are SPECIAL STUDENTS in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree. They are admitted *only by the consent of the head of the department* and must be registered in the Dean's office of the medical college and must pay their fees at the Business office before being admitted to lectures or laboratory periods. They are required to carry and show on demand of the authorities a permit of attendance.

Although Cornell University Medical College intends to develop special opportunities for advanced work of high quality in the medical sciences and in the clinical fields, it does not at present offer work corresponding to that usually described as *clinical post-graduate work*. Certain clinical courses have been in the past offered to graduates in medicine, but these have been discontinued. Work offered to post-graduate students at present will demand a prolonged period of residence as does other graduate work. Such work is not credited toward an advanced degree unless the student be regularly registered for such a degree in the Graduate School of Cornell University and unless the work in question is in the curriculum of the Graduate School. Usually students admitted for post-graduate work of this type will hold either the M.D. or Ph.D. degree and in addition will have had several years of

practical work. Unless they hold positions on the resident staff, they must register at the Dean's Office, pay the requisite fees, and receive a permit of attendance. For fees see courses listed under departmental announcements.

## THE GRADUATE SCHOOL

*Those contemplating entering Cornell University Graduate School should refer to the Announcement of the Graduate School, which can be obtained by addressing the Dean of the Graduate School at Ithaca, N. Y.*

The Faculty of the Graduate School has control of graduate work in all departments of Cornell University and exclusive jurisdiction over the granting of all advanced degrees. Certain professors in the scientific departments of the Cornell University Medical College in New York City offer graduate instruction as an integral part (Group F) of the Graduate School of Cornell University. Properly qualified students may accordingly enter upon graduate work in New York City under the jurisdiction of professors in these departments and may become candidates for advanced degrees under the same conditions as apply to students in other divisions of the Graduate School.

Graduates of the following colleges of the University, namely, the College of Arts and Sciences, the Medical College, the College of Architecture, the College of Law, the College of Engineering, and the New York State Colleges of Agriculture, Home Economics and Veterinary Medicine—or other institutions in which the requirements for the first degree are substantially equivalent—are eligible for admission to the Graduate School. In other cases, studies pursued after graduation, and experience gained by professional work or otherwise are taken into consideration in deciding whether the candidate's preparation as a whole is such as to justify his admission to the Graduate School.

Graduate students resident in New York City and working under the direction of members of the faculty connected with Cornell University Medical College are students in the Graduate School of Cornell University, and as candidates for an advanced degree are subject to all the regulations laid down by the Faculty of the Graduate School. The members of the medical college who give instruction to graduate students constitute Group F of the Faculty of the Graduate School. Professor C. V. MORRILL, Chairman of Group F, will advise with applicants for admission to the Graduate School at the medical college in New York. Applications may be addressed to the Office of the Dean of Cornell University Medical College, New York, or to the Dean of the Graduate School, Cornell University, Ithaca, N. Y.

## FEES

MATRICULATION FEE . . . . .	\$10
This fee is required of every student upon entrance into Cornell University. It must be paid at the time of registration.	
TUITION FEE . . . . .	\$150
This fee for the academic year is to be paid by all students registered in the Graduate School.	
ADMINISTRATION FEE . . . . .	\$25
This fee is to be paid by all students registered in the Graduate School. It is payable in installments of \$12.50 semi-annually in advance.	
GRADUATION FEE . . . . .	\$20
This fee is required at least ten days before the degree is to be conferred, of every candidate for an advanced degree. The fee will be returned if the degree is not conferred.	

Certain classes of students are exempt from payment of the tuition fee. They are:

(1) Graduate students holding appointments as University Fellows or Graduate Scholars.

(2) Graduate students holding appointments as assistants and instructors and having their major studies in the college or line of work in which they are instructing, are exempt only from the payment of tuition fees in the department in which they are employed to give instruction. Members of the instructing staff who take work for which they must pay tuition are required to pay in proportion to the amount of work for which they are registered.

## FACULTY OF MEDICINE AT ITHACA

LIVINGSTON FARRAND, A.B., M.D., L.H.D., LL.D., President.

ABRAM TUCKER KERR, B.S., M.D., Secretary of the Medical College at Ithaca, Professor of Anatomy.

SIMON HENRY GAGE, B.S., Professor of Histology and Embryology, *Emeritus*.

BENJAMIN FREEMAN KINGSBURY, Ph.D., M.D., Professor of Histology and Embryology.

JAMES BATCHELLER SUMNER, A.M., Ph.D., Professor of Biochemistry.

HOWARD SCOTT LIDDELL, A.M., Ph.D., Professor of Physiology.

JAMES WENCELAS PAPEZ, A.B., M.D., Assistant Professor of Anatomy and Neurology.

\*HOWARD BERNHARDT ADELMANN, A.M., Ph.D., Assistant Professor of Histology and Embryology.

JOSEPH ALMA DYE, A.B., Ph.D., Assistant Professor of Physiology.

GEORGE HARRISON MAUGHAN, A.M., Ph.D., Instructor in Physiology.

DAVID BIRNEY HAND, A.B., Ph.D., Instructor in Biochemistry.

THEODORE SNOOK, B.S., Ph.D., Instructor in Histology and Embryology.

ANDREW J. RAMSAY, A.B., Instructor in Histology and Embryology.

STACEY F. HOWELL, A.B., M.S., Instructor in Biochemistry.

RUTH McMILLAN HUNTER, A.M., Ph.D., Assistant in Histology and Embryology.

MARGARET SHEA GILBERT, A.B., A.M., Assistant in Histology and Embryology.

CLARENCE E. KLAPPER, A.B., A.M., Assistant in Histology and Embryology.

FRED J. ROEMER, A.B., Assistant in Anatomy.

WAYNE RUNDLES, A.B., Assistant in Anatomy.

JACK HERTZMAN, M.D., Assistant in Anatomy.

\*On leave, 1933-34.

INSTRUCTION AT ITHACA  
DURING THE FIRST YEAR OF THE COURSE  
CALENDAR FOR ITHACA, 1933-34

FIRST TERM

- Sept. 25, 26 Monday and Tuesday—Registration and assignment of new students.  
Sept. 26, 27 Tuesday and Wednesday—Registration and assignment of old students.  
Sept. 28 Thursday—Instruction begins.  
Oct. 20 Friday—Last day for payment of tuition for first term.  
Nov. 29 Wednesday—Instruction ends at 6 P. M.  
Dec. 4 Monday—Instruction resumed at 8 A. M.  
Dec. 23 Saturday—Instruction ends at 1 P. M. (Christmas recess).  
Jan. 8 Monday—Instruction resumed at 8 A. M.  
Jan. 11 Thursday—Founder's Day.  
Jan. 29 Monday—Term examinations begin.  
Feb. 7 Wednesday—Term examinations end; first term closes.  
Feb. 8 Thursday—Holiday.

SECOND TERM

- Feb. 9 Friday—Registration of all students for the second term.  
Feb. 12 Monday—Instruction begins at 8 A.M.  
Mar. 5 Monday—Last day for payment of tuition for second term.  
Mar. 31 Saturday—Instruction ends at 1 P. M. (Spring recess.)  
April 9 Monday—Instruction resumed at 8 A. M.  
May 26 Saturday—(Holiday) Spring and Navy Day.  
June 4 Monday—Final examinations begin.  
June 12 Tuesday—Final examinations end.  
June 18 Monday—Commencement.

GENERAL STATEMENT

From its foundation, Cornell University has offered special courses for students preparing for the study of medicine; first in the natural history course, and later also in a special two-year medical preparatory course. In 1898 the medical college was established in New York City with a four-year course. At the same time the work of the first two years was duplicated at the University in Ithaca, since many of the fundamental scientific subjects of which this part of the course mainly consists were already provided for in the long-established departments of botany, zoology, comparative anatomy, physics, chemistry, physiology, histology, embryology, and bacteriology. The courses in these departments were modified where necessary and additional courses were added so as to make the work at Ithaca equivalent to the first two years in New York City. In 1908, the work of the second year was discontinued at Ithaca.



**OTHER COLLEGES OF THE UNIVERSITY.** Among the facilities of the university of special value to the medical college may be mentioned the museums of vertebrate and invertebrate zoology (including entomology and comparative anatomy), of agriculture, of botany, of geology, and of veterinary medicine. The University Library with its 742,723 volumes and pamphlets, and over 2,000 current periodicals and transactions, is as freely open to medical students as to other university students.

**STIMSON HALL.** This is a modern and thoroughly equipped laboratory building erected for the medical college at Ithaca in 1902. It was made possible through the generosity of the late Dean Sage of Albany and named at his desire Stimson Hall in recognition of the services rendered by Dr. Lewis A. Stimson toward the establishment of the medical college. The building was especially designed for teaching and research in anatomy, histology, embryology, and physiology.

In the cellar are sound-proof conditioned reflex rooms, the cold-storage, embalming, cremating rooms, and storerooms.

In the basement are the ventilating and cold-storage machinery, a large lecture room, research rooms, and an advanced laboratory for histology, besides the lower part of the large amphitheatre. Here also is the operating room for physiology.

On the first floor are the coat rooms for men and women, college office, library, reading room, faculty room, histology and embryology research laboratory, general laboratory for experimental physiology, demonstration and metabolism room for physiology, and the upper part of the large amphitheatre.

On the second floor is the Department of Histology and Embryology with a large general laboratory, research laboratory, preparation rooms, and private laboratories for the instructors. Upon this floor also is the Department of Physiology, with a large general laboratory for biochemistry, research laboratories for biochemistry, a research laboratory for experimental physiology, an incubator room, repair shop and private laboratories for the instructors.

The third floor consists of the general and special dissecting rooms for gross anatomy and neurology, study rooms, dark room, radiology room and amphitheatre, besides rooms for the instructors.

The attic is utilized for photography, macerating skeletons, and for storage.

The air in the building is constantly changed by forced ventilation. The lighting is especially good in all the rooms.

In the court behind the building is a house for alcohol and inflammables and provision for experimental animals, including a small animal house. Additional animal houses and experimental laboratories are situated at some distance from the medical building on the Physiology Field Station.

**THE VANCLEEF MEMORIAL LIBRARY.** This library, endowed by Mr. Mynderse VanCleaf in honor of his brother, Dr. Charles VanCleaf, is situated in Stimson Hall and supplements the extensive facilities of the

university library by a steadily growing collection of reference works and periodicals of importance for the work of instruction and research conducted in Stimson Hall. The library room is lighted by indirect overhead light, and the reading desks are provided with daylite lamp fixtures.

**EXPERIMENTAL FIELD STATION.** An important adjunct to the Department of Physiology is an Experimental Field Station which consists of nine acres situated in the open country about two miles from the medical college. In this fenced field a barn for the accommodation of large animals such as sheep and goats, and proper houses with runs for small animals have been provided. In such a station animals under observation in feeding and nutrition experiments, for example, may be kept under ideal conditions for long periods of time. A laboratory equipped for the study of conditioned reflexes has been constructed in which it is possible, due to the quiet environment, to provide an experimental room practically sound proof. This is essential for success in the investigation of conditioned reflexes. Communication between the station and the laboratory is maintained by a motor truck belonging to the department.

**THE SARAH MANNING SAGE RESEARCH FUND.** As a recognition of the importance of the research side of university work, and as a timely and generous gift, there came in 1916 a bequest of \$50,000 by the will of Sarah Manning Sage, widow of Dean Sage, the donor of Stimson Hall. The income of this sum, or in the discretion of the university the principal also, shall be used to promote the advancement of medical science by the prosecution of research in the Cornell University Medical College at Ithaca, in connection with any and all subjects at any time embraced in the curriculum.

## PLAN OF INSTRUCTION

### ANATOMY

ABRAM T. KERR, B.S., M.D., Professor of Anatomy.

JAMES W. PAPEZ, A.B., M.D., Assistant Professor of Anatomy and Neurology.

JACK HERTZMAN, M.D., Assistant.

FRED J. ROEMER, A.B., Assistant.

WAYNE RUNDLES, A.B., Assistant.

The courses in anatomy are designed to provide a comprehensive and detailed study of the structure of the human body.

The work in gross anatomy is mostly concentrated in the first term of the first year. The laboratory is open from eight to five on week days, except Saturday. Twenty-five hours a week are allowed for the required work in the first term and four hours a week in the second term. Students who have additional hours free may devote more time to the subject.

The work consists mainly of dissection followed by recitation on the part dissected. For this work there is an ample supply of dissecting material well embalmed and kept in cold storage ready for use. Each student is required to do a clean and careful dissection of a lateral half of the body. The regional method of dissection is followed. The student is furnished a systematic laboratory outline so arranged where possible that the structures in each region can be studied together as a topographic, functional, or surgical area. It is realized that no one method or point of view is sufficient or applicable to every region. The purpose throughout is to make the student find and identify every structure, to appreciate its functional significance, its relations and its peculiar characteristics, to assemble details into general concepts, to visualize and interpret every region and organ. The aim is to direct the student to work methodically, to observe carefully and to think clearly and independently. He is encouraged to make careful notes and as many drawings as time permits. Where feasible, he is taught to compare his findings on the cadaver with conditions in the living body.

An x-ray outfit and fluoroscope in the department makes it possible in many regions to compare the x-ray picture from the cadaver with the findings in the dissection. A complete disarticulated skeleton is loaned to each student so that the bones may be available for study when encountered in course of dissection. In addition the department is well equipped with models, cross sections, and special dissections for study and demonstration. For study of the finer structure of the organs hand lenses and several binocular dissecting microscopes are provided in the laboratory. A student library containing atlases and some of the more important anatomical monographs is in connection with the laboratory. Besides the usual regional recitation on the dissected part, demonstration conferences are held about three times a week with the class as a whole or with smaller groups. Occasional lectures are given on matters that cannot be made clear by dissection and demonstrations.

The work in the anatomy of the nervous system and sense organs is given during the second term. It consists mainly of laboratory work with frequent conferences and recitations. A topographic study and dissection of the organ or part precedes or accompanies its microscopic study. Special attention is given to the sense organs, nerves, nuclei, reflex connections, conduction tracts and cortical areas that enter into the formation of the more important functional systems. In connection with each organ or part, its development and comparative morphology is considered. For this work an ample supply of human brains, brains of lower mammals, Weigert sections, and other preparations is available.

The department is well equipped to provide facilities for those properly qualified to undertake advanced and research work. Students with special ability or training are permitted to do more than the required work. Where time permits they are encouraged to do advanced or research work.

1. *Anatomy of the Head and Neck.*

First term. Credit, 4 hours, 24 actual hours a week for 6 or more weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

2. *Anatomy of the Thoracic Walls and Viscera.*

First term. Credit, 1 hour, 24 actual hours a week for 2 or more weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

3. *Anatomy of the Abdominal and Pelvic Walls and Viscera.*

First term. Credit, 4 hours, 24 actual hours a week for 6 or more weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

5. *The Nervous System. Anatomy, Histology, and Systematization.*

Second term. Credit, 3 hours. Assistant Professor Papez and instructors. Eight hours a week laboratory with laboratory demonstrations, conferences and recitations. Dissection of the spinal cord and brain. Microscopic structure and development of the nervous system.

6. *Anatomy of the Living Body.*

First term. Credit, 2 hours, 3 actual hours a week. Professor Kerr. Interpretation of dissecting room material by means of the living body, frozen sections, and special preparations. A review of the work of Courses 1, 2, and 3.

7. *Anatomy of the Upper Extremity.*

First term. Credit, 2 hours, 24 hours a week for 2 or more weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

8. *Anatomy of the Lower Extremity.*

Second term. Credit, 2 hours, 4 hours a week for 16 weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

9. *Topographical Anatomy.*

First and second terms. Credit, 2 to 5 hours. Elective. Prerequisite, anatomy courses 1, 2, 3, 7, or 8. The detailed dissection and study of any region. Professors Kerr and Papez.

250. *Research in Anatomy and Neurology.*

First and second terms. Professors Kerr and Papez. Advanced and research work in the laboratories. Open only to those who have taken the necessary preliminary courses, and are properly qualified.

## HISTOLOGY AND EMBRYOLOGY

BENJAMIN F. KINGSBURY, PH.D., M.D., Professor.

HOWARD B. ADELMANN, A.M., PH.D., Assistant Professor.

THEODORE SNOOK, B.S., PH.D., Instructor.

ANDREW J. RAMSAY, A.B., Instructor.

RUTH McMILLAN HUNTER, A.M., PH.D., Assistant.

MARGARET SHEA GILBERT, A.B., A.M., Assistant.

CLARENCE E. KLAPPER, A.B., A.M., Assistant.

As indicated by the following courses, this department offers elementary and advanced instruction in the theory and use of the micro-

scope and its accessories in histology and embryology and, also, opportunities for research in all of these subjects.

The material equipment consists of a good supply of modern microscopes. Camera-lucidas, polariscopes, micro-spectroscopes, photo-micrographic cameras, microtomes and other special apparatus such as dark-field illuminators are available in sufficient numbers to give each student opportunity for personally learning to use and apply them to any special study in which they may be needed. Two projection microscopes are available for class demonstrations and for making the drawings used in reconstruction.

The rooms for the use of the department are on the second floor of Stimson Hall. They are well lighted. They consist of a large general laboratory, an advanced laboratory, a preparation room, department office and five private laboratories for the instructing staff, where special demonstrations of difficult subjects are given to small groups of students.

The collection of material and microscopic series of human embryology, contributed mainly by graduates of the college, is steadily growing. Every encouragement is given for the fullest utilization of the opportunities afforded by the department.

The work of the department consists of practical laboratory work, supplemented by lectures, conferences, and demonstrations. The work required of students of medicine is given in Course 10. For those who have already had elsewhere satisfactory work in histology, elective work may be taken in Courses 107 and 108. Courses open to students in the College of Arts and Sciences and Veterinary Medicine are described in the announcements of these colleges.

### COURSES REQUIRED OF STUDENTS OF MEDICINE

#### 10. *Histology.*

First term. Credit, 8 hours. Professor Kingsbury and assistants. Required of first-year students of medicine. Four laboratory periods and four lectures each week. The work includes (a) The fundamentals of human development; (b) The histology of the tissues and organs (except the nervous system); (c) The main facts of histogenesis and the development of the organs (except the nervous system). It is highly advantageous that the course be preceded by a course in embryology (see Courses of Instruction of the College of Arts and Sciences, Course 104).

### ADVANCED AND ELECTIVE COURSES

#### 107. *Advanced Work in Histology and Embryology.*

First and second terms. Professor Kingsbury and Assistant Professor Adelman. Laboratory work, eight or more actual hours a week, with Seminary (Course 108).

This course is designed for those preparing theses for baccalaureate or advanced degrees, and for those wishing to undertake special investigations in histology and embryology.

Course 107 is open to those who have had Course 10, or its equivalent. A good reading knowledge of French and German is indispensable for the most successful work in this course. It is suggested that those who intend to take this course confer with the head of the department as early as possible, so that the work may be planned to the best advantage.

108. *Seminary.*

First and second terms. One hour each week at an hour to be arranged.

For the discussion of current literature and the presentation of original work by the members of the department staff and those doing advanced work in the department. It may be taken in connection with Course 107.

## PHYSIOLOGY AND BIOCHEMISTRY

JAMES B. SUMNER, A.M., PH.D., Professor of Biochemistry.

HOWARD S. LIDDELL, A.M., PH.D., Professor of Physiology.

JOSEPH A. DYE, A.B., PH.D., Assistant Professor of Physiology.

GEORGE H. MAUGHAN, A.M., PH.D., Instructor in Physiology.

DAVID B. HAND, A.B., PH.D., Instructor in Biochemistry.

STACEY F. HOWELL, A.B., M.S., Instructor in Biochemistry.

## PHYSIOLOGY

This subject is taught in the second term of the first year of the medical curriculum. It is the aim of the department to give the students a thorough training in the fundamentals of the science of physiology and an effort is made to strike the proper balance between the study of theoretical principles in the lecture room and the practical application of these in the laboratory.

Nine hours a week are devoted to practical exercises, special attention being given to experimental methods which are likely to be of importance in the study of clinical medicine.

In the laboratory, from year to year, less and less time is taken up with frog physiology and more and more time devoted to a practical study of mammalian functions. This is made possible by the fact that the department now possesses six large Brodie type kymographs of recent pattern for the exclusive use of medical students.

The following courses are offered:

31. *Physiology of Muscle and Nerve; Central and Automatic Nervous Systems; Special Senses.*

Second term. Credit, 4 hours. Professor Liddell and assistants. Four lectures or recitations and three laboratory periods weekly for eight weeks.

34. *Physiology of Digestion and Secretion; Absorption; Excretion; Heat Production and Its Regulation; and Functions of the Endocrine Glands.*

Second term. Credit, 4 hours. Assistant Professor Dye, Instructor Maughan, and assistant. Four lectures or recitations and three laboratory periods weekly for eight weeks, supplemented by demonstrations, conferences and written reviews. In the Laboratory, the students will gain practical experience by making animal preparations, demonstrating and studying the physiological mechanisms of the mammalian body.

308. *Advanced Work and Research in Physiology.*

First and second terms. Credit, 2 or more hours. Assistant Professor Dye. Prerequisite or parallel, courses 31 and 34 or their equivalents. This course is designed for undergraduate students who are especially interested in physiological problems and wish to undertake special investigations in this field in preparation for further work toward advanced degrees.

310. *Seminary in Physiology.*

Second term. Credit, 1 hour. For graduate students and others properly qualified. Hour to be arranged. Members of the staff. Reports on recent advances in physiology.

## BIOCHEMISTRY

In this section the student is taught the chemistry of the tissues, fluids, secretions, and excretions of the human body; the composition of food-stuffs, and the phenomena of their digestion, absorption, and assimilation; the rôle of enzymes in the animal economy; the principles of nutrition; and the leading facts of general and special metabolism. Groups of organic compounds of special biological importance will be discussed emphasizing particularly the carbohydrates, purins, amino acids, and fats. The fundamental properties of electrolytes and colloids and the phenomena of osmosis and dialysis will be considered in lecture room and laboratory. Instruction is given in the use of analytical methods for the examination of biological products, both normal and pathological. Those methods are principally considered which have found an application in scientific medicine, and special attention is devoted to the quantitative analysis of the gastric contents, blood, and urine. Each student completes the course by performing a metabolism experiment upon himself.

The bulk of the instruction is given in the laboratory. As occasion arises, the student's individual work there is supplemented by experimental demonstrations; while by means of lectures and recitations it is sought to co-ordinate the whole, and to expound the theoretical aspects of the subject.

The following courses are offered:

15. *General Biochemistry.*

Second term. Credit, 9 hours. Five lectures or recitations and four three-hour laboratory periods weekly; supplemented by demonstrations, conferences and written reviews. Professor Sumner, Instructors Hand and Howell. Required of first-year students of medicine.

17. *Special Chapters in Biochemistry.*

First term. Credit, 1 hour. Professor Sumner. One lecture weekly on some selected province of biological chemistry. Hour to be arranged. This is an elective course for advanced students or graduates.

320. *Advanced and Research Work in Biochemistry.*

First and second terms. Professor Sumner. The laboratory is open daily to all qualified persons for advanced instruction or the prosecution of research. Courses are arranged to suit the training and requirements of the individual student.

## SUMMARIZED STATEMENT

In this schedule the counts or university hours are given on the following basis: One recitation or lecture weekly for one term or half year gives a credit of one; for laboratory work it requires two and one-half to three actual hours weekly for a term or half year to secure a credit of one.

## REQUIRED COURSES

## FIRST TERM

1. *Anatomy of the Head and Neck.*

Credit, 4 hours, 24 actual hours a week for 6 weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

2. *Anatomy of the Thoracic Walls and Viscera.*

Credit, 1 hour, 24 actual hours a week for two weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

3. *Anatomy of the Abdominal and Pelvic Walls and Viscera.*

Credit, 4 hours, 24 actual hours a week for 6 weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

6. *Anatomy of the Living Body.*

Credit, 2 hours, 3 actual hours a week. Professor Kerr.

7. *Anatomy of the Upper Extremity.*

Credit, 2 hours, 24 actual hours a week for 2 or more weeks. Professors Kerr and Papez, and assistants.

10. *Histology.*

Credit, 8 hours. Professors Kingsbury, Adelman, instructors and assistant. Four laboratory periods and four lectures each week.

## SECOND TERM

31. *Physiology of Muscle and Nerve; Central and Automatic Nervous Systems; Special Senses.*

Second term. Credit, 4 hours. Professor Liddell and assistants. Four lectures or recitations and three laboratory periods, weekly for eight weeks.

34. *Physiology of Digestion and Secretion; Absorption; Excretion; Heat Production and Its Regulation; Functions of the Endocrine Glands.*

Second term. Credit, 4 hours. Four lectures or recitations and three laboratory periods weekly for eight weeks, supplemented by demonstrations, conferences and written reviews. In the laboratory, the students will gain practical experience by making animal preparations, demonstrating and studying the physiological mechanisms of the mammalian body. Assistant Professor Dye, Instructor Maughan, and assistants.

15. *General Biochemistry.*

Credit, 9 hours. Five lectures or recitations and four three-hour laboratory periods weekly, supplemented by demonstrations, conferences, and written reviews. Professor Sumner and instructors.

5. *The Nervous System. Anatomy, Histology, and Development.*

Credit, 3 hours. Assistant Professor Papez and instructors. Eight actual hours a week. Dissection of the spinal cord and brain. Microscopic structure of the nervous system and organs of special sense.

8. *Anatomy of the Lower Extremity.*

Credit, 2 hours, 4 actual hours a week. Professors Kerr and Papez and assistants.

## FIRST TERM

	No. of Course	University Hours	Actual Hours Weekly
Anatomy . . . . .	1,2,3,7	11	24
Anatomy . . . . .	6	2	3
Histology . . . . .	10	8	16
		<hr/> 21	<hr/> 43



## SECOND TERM

Anatomy . . . . .	8	2	4
Physiology . . . . .	31	4 }	13
Physiology . . . . .	34	4 }	
Nervous System . . . . .	5	3	8
Biochemistry . . . . .	15	9	17
		<hr/> 22	<hr/> 42

## GENERAL INFORMATION

## REQUIREMENTS FOR ADMISSION

The requirements for admission are identical with those of the Medical College at New York City (see page 50).

## RESIDENCE AND REGISTRATION

The college year is nine months long, extending from the last of September till about the middle of June, and is divided into two nearly equal terms. (For exact dates, see calendar on page 96).

No credit is given for work done in absentia. For leave of absence during the session, application should be made to the Secretary.

At the beginning of the term students must register with the University Registrar, in Morrill Hall. After registration with the University Registrar, they must register with the Secretary of the Medical College, in Stimson Hall.

## EXAMINATIONS AND ADVANCEMENT

Students are advanced in course from one year to the next on passing examinations on the work of that year. The work of each year is considered final of itself. There is no unnecessary repetition of subjects taught from year to year. According to the usage of the other colleges, the university student found to be markedly deficient will be dropped from the college at the end of the term. In the case of a student so dropped, an application for re-admission will not be considered until after the expiration of one term.

Upon the completion of the year in Ithaca, a transcript of the record of each student, together with a statement that such student is recommended for admission to the second-year class, is transmitted by the faculty at Ithaca to the faculty of the medical college in New York City. As a student is not advanced from one year to another in the New York division until all the work of the year is completed, a student from Ithaca cannot enter the second-year class in New York until the entire schedule of the first year has been successfully completed. For removing any conditions, examinations are held at the beginning of the fall term, both in Ithaca and in New York City. The student is at liberty to take these examinations in Ithaca or in New York City. The examination on a subject in either place is final for that year. That is, the student will not be permitted to try an examina-

tion on a subject in Ithaca, and take advantage of the later date for the examination in New York to have a second examination on the same subject in the same autumn.

### CHARGES FOR INSTRUCTION .

#### FIRST YEAR

Matriculation . . . . .	\$ 10
Tuition . . . . .	500
	<hr/>
	\$510

Willard Straight Hall and Infirmary fees are paid by medical students as well as by all other students.

All tuition and other fees may be changed or increased by the Trustees to take effect at any time without previous notice.

*Applications for registration in the Medical College should be made by January 1, and a deposit of \$100 is required if accepted.*

An application received after January 1 may be accepted if, in the judgment of the Faculty, there is adequate provision for the student's instruction.

The advance of \$100 on account of tuition which is required of each applicant on acceptance for admission is payable normally within two weeks of notification, and is not returnable.

### RESIDENTIAL HALLS

The University has eight residential halls for men students situated on the campus and furnishing accommodations for about 600 students. For particulars address The Manager of Residential Halls, Morrill Hall, Ithaca, N. Y. There are, also, many private boarding and rooming houses near the campus. In these the cost of board and furnished room, with heat and light, varies from \$10 to \$15 a week. By the formation of clubs, students are sometimes able to reduce their expenses for room and board. Cafeterias are maintained by the university in Willard Straight Hall and in the Home Economics Building, where meals can be obtained at reasonable prices.

Before engaging rooms, students should carefully examine sanitary conditions and should particularly insist on satisfactory and sufficient fire escapes. The university publishes and distributes a list of approved rooming houses. This list is ready for distribution August 15. New students are advised to come to Ithaca a few days in advance of the beginning of the university duties in order that they may have ample time to secure room and board before the opening of the academic year. The Freshman Advisory Committee offers its assistance to new students in the selection of rooming and boarding houses.

The residential halls for women students are Sage College, Prudence Riskey Hall, and Balch Halls. In these buildings, which are exclusively for women students, the total cost of board, laundry, and rent of fur-

nished rooms, with heat and light is \$515 a year. The halls are heated by steam, and lighted by electricity. The Dean of Women has jurisdiction over all women students in the university, and women students are not permitted to board and lodge outside of the halls for women except in houses approved by her and subject to her direction. Prospective women students should write to the Dean of Women for information concerning any matters in which they may need assistance. Dormitory facilities for women are inadequate, and prospective students desiring such accommodations are urged to make early application. Inquiries in regard to board and rooms in the women's halls should be addressed to The Manager of Residential Halls, Morrill Hall, Ithaca, N. Y.

## CORNELL UNIVERSITY MEDICAL COLLEGE

ITHACA, N. Y.

## FIRST YEAR—SESSION OF 1933-1934—FIRST TERM

	8	9	10	11	11:30	1	2	3
Monday	Anatomy L.	Histology L.	Histology			Anatomy		
Tuesday	Anatomy							
Wednesday	Anatomy L.	Histology L.	Histology			Anatomy		
Thursday	Anatomy							
Friday	Anatomy L.	Histology L.	Histology			Anatomy		
Saturday	Histology L.							

## FIRST YEAR—SESSION OF 1933-1934—SECOND TERM

	8	9	10	11	11:30	1	2	3
Monday	ANATOMY					Neuro-Anatomy		
Tuesday	Biochemistry L.	Physiology				Physiology		
Wednesday	Physiology L.	Biochemistry L.	Biochemistry			Neuro-Anatomy		
Thursday	Physiology L.	Biochemistry L.	Physiology			Biochemistry		
Friday	Physiology L.	Biochemistry L.	Biochemistry			Neuro-Anatomy		
Saturday	Physiology L.	Biochemistry L.	Biochemistry					

## GRADUATE WORK AT ITHACA

## ADMISSION

The Graduate School has exclusive control of all graduate work carried on in the university. Graduates of the following colleges of Cornell University, namely, the College of Arts and Sciences, the College of Architecture, the College of Engineering, the Medical College, the New York State College of Agriculture, the New York State College of Home Economics, the Law School and the New York State Veterinary College, and also graduates of other institutions in which the requirements for the first degree are substantially equivalent, are eligible for admission to the Graduate School. In other cases studies pursued after graduation, and experience gained by professional work or otherwise, are taken into consideration in deciding whether the candidate's preparation as a whole is such as to justify his admission to the Graduate School. Graduates of colleges other than those of Cornell University may be admitted to the Graduate School, but not to candidacy for an advanced degree, if their training is regarded as less than one year short of that required for the first degree at Cornell University.

In order to be admitted to the Graduate School, a student must furnish evidence that he has already received a first degree, by presenting either a diploma or a statement from some official source. The simplest procedure will ordinarily be to submit an official statement from the registrar or dean that the degree has been conferred. In the case of graduates of Cornell University this is not necessary, since the records are conveniently accessible.

To avoid delays at the beginning of the academic year, those who desire to enter the Graduate School are advised to make application for admission, either in person or by letter, in the preceding spring or summer. Correspondence should be addressed to the Dean of the Graduate School, Cornell University, Ithaca, New York.

For details in regard to the selection of major and minor subjects, special committees in charge of the work of each candidate for an advanced degree, fees, time required, thesis, and special conditions to be fulfilled by each candidate for an advanced degree, reference should be made to the Announcement of the Graduate School.

## FACILITIES

The facilities of the departments of anatomy, histology and embryology, physiology and biochemistry, have been outlined under the description of each department. These are equally available for the use of the graduate students and for medical students.

## FELLOWSHIPS AND GRADUATE SCHOLARSHIPS

Among the twenty-four fellowships and eighteen scholarships offered annually to students in the Graduate School, the following are of particular interest to students continuing work in biological sciences:

THE SCHUYLER FELLOWSHIP IN ANIMAL BIOLOGY (annual value of \$400 and free tuition in the Graduate School).

THE GRADUATE SCHOLARSHIP IN ANIMAL BIOLOGY (annual value of \$200 and free tuition in the Graduate School).

#### THE COMBINED A.B. AND M.D. DEGREES

The medical college advises students to complete, whenever feasible, the full four-year A.B. course before applying for admission to this college. It is possible, however, to be admitted to the medical college under Section II of the entrance requirements. This is to provide for those students who, by specially directed or especially proficient work, accomplish the essential requirements for the Arts degree during three years of college residence. No students are admitted under this classification unless their college faculty will permit them to substitute the first year in the Cornell University Medical College for the fourth year of their college course, and no student is admitted to the second year in the Medical College without the bachelor's degree obtained after at least three years of undergraduate college work.

The first year in the medical course, which may be taken in place of the fourth year of the arts work, may be pursued either in Ithaca or in New York City. If all the work of this year is completed satisfactorily the student receives the degree of A.B. or its equivalent, and is permitted to take the last three years of the medical work. These are taken entirely in the Cornell University Medical College in New York City.

For the convenience of college students preparing for medicine, a schedule of the courses in the College of Arts and Sciences of Cornell University, in physics, chemistry, and biology, which will satisfy the requirements for admission to the medical college, is given below. If a student is taking four years in a liberal arts college, these courses may be taken later in the course than indicated. It is important that the order given in the outline should be followed, as certain of these courses are prerequisite for other prescribed courses. In addition to the courses required for admission to the medical college, the student will take all courses in English, foreign language, philosophy and psychology, history, mathematics, economics and government which are prescribed by the College of Arts and Sciences. It is advised that all these underclass requirements be completed before the beginning of the junior year.

The courses which the medical college requires of its applicants for admission, and planned for the student who expects to finish his arts courses in three years are thus outlined:

## FIRST YEAR IN ARTS

	<i>Course No.</i>	<i>1st Term Hours Credit</i>	<i>2nd Term Hours Credit</i>
Animal Biology (Introductory Zoology).....	1	3	3
Chemistry (Introductory Inorganic).....	101		3
Chemistry (Introductory Inorganic).....	105		3

## SECOND YEAR IN ARTS

Animal Biology (Comparative Anatomy and morphology of vertebrates).....	11	3	3
Chemistry (Introductory Qualitative Analysis).....	210	3	
Chemistry (Introductory Quantitative Analysis).....	225		3
Physics (Introductory Experimental).....	3 & 4	3	3

## THIRD YEAR IN ARTS

Chemistry (Elementary Organic).....	375	6	
Animal Biology (Histology and Histogenesis of the tissues) .	101	4	
Animal Biology (Vertebrate Embryology).....	104		5
Physics (Introductory Physical Experiments).....	55	3	

It is desirable that included in, or in addition to the modern foreign language required for admission to the Medical College, students should obtain a reading knowledge of French and German.

Some of the additional courses suggested for election according to the needs or desires of each individual student are:

In the group of Animal Biology, courses: 10—Cytology; 14—Genetics; 102—Histology and development of the organs; 221—Structure of the human body; 222—Anatomical methods; 1-2—Economics and 54—Introduction to Social Science. Also courses in Psychology and additional courses in English and Public Speaking where these latter are needed.

## STUDENTS, 1933-34

### CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

#### FOURTH YEAR

- Elizabeth Clarice Adams, A.B., 1926, Wellesley College,  
M.S., 1930, New York University  
Frank Marvin Adams, B.S., 1932, University of North Carolina  
George Newton Ballentine, B.S., 1930, Bucknell University  
Virginia Barrett, A.B., 1931, Cornell University  
Theodore Charles Bauerlein, A.B., 1928, St. Mary's College  
Michael Steven Brody, B.S., 1928, New York University  
Frederick Robert Brown, A.B., 1931, Cornell University  
Veronica Cecelia Brown, A.B., 1925, Cornell University  
Peter Louis Carnesale, A.B., 1930, Cornell University  
Robert LaTourette Cavanaugh, A.B., 1930, Cornell University  
Walter Irving Chapman, A.B., 1930, Johns Hopkins University  
Charles Gardner Child, 3rd, A.B., 1930, Yale University  
Nathaniel Cooper, B.S., 1929, College of the City of New York  
William Thomas Doran, Jr., A.B., 1930, Dartmouth College  
William Harrison Eberle, A.B., 1931, Cornell University  
William Epstein, B.S., 1930, College of the City of New York  
Kenneth Tyne Fairfax, A.B., 1931, Cornell University  
Glady's Jeannette Fashena, A.B., 1929, Hunter College,  
A.M., 1930, Columbia University  
Dorothy Loomis Frame, A.B., 1930, Vassar College  
Nathan Baruch Friedman, A.B., 1930, Harvard University  
Otto S. Hensle, B.S., 1930, Washington and Jefferson College  
John Winslow Hirshfeld, A.B., 1930, Cornell University  
Marion Hotopp, A.B., 1921, Mount Holyoke College  
Heloise Beekman Hough, A.B., 1929, Barnard College  
Joseph John Kanich, A.B., 1931, Cornell University  
Irving Ludwig Kohn, A.B., 1929, Cornell University  
Earl Parsons Lasher, A.B., 1931, Cornell University  
Leon Samuel Loizeaux, Jr., 1931, Cornell University  
William Randolph Lovelace, A.B., 1930, Washington University  
Donald Cameron Malcolm, B.S., 1930, Washington and Jefferson College  
Thomas Poultney Ellicott Mathews, A.B., 1930, Columbia University  
Helen Maria McKee, B.S., 1927, Connecticut College  
Emory Allan McLean, A.B., 1931, Dartmouth College  
John Milton McLean, M.E., 1930, Stevens Institute of Technology  
Adolph Meltzer, B.S., 1930, College of the City of New York  
James Alexander Moore, A.B., 1930, Cornell University  
Robert Emmet Mountain, A.B., 1931, Cornell University  
Harry Maurice Murphy, A.B., 1931, Cornell University  
Roger Burdette Nelson, A.B., 1930, Cornell University  
Frederick Walter Rea, A.B., 1931, Cornell University  
Ernest Venner Reynolds, A.B., 1930, Williams College  
Edward Pier Roemer, A.B., 1930, University of Wisconsin  
Augustine Thornton Scott, A.B., 1930, Princeton University  
Henry Thomas Sherman, B.S., 1930, Emory University  
Vincent Joseph Simmon, A.B., 1929, Amherst College  
Wilson Fitch Smith, Jr., Ph.B., 1930, Yale University  
Harry Strongin, A.B., 1931, Cornell University  
Howard Taylor Stuch, A.B., 1929, University of Michigan  
William Albert Thornhill, A.B., 1930, West Virginia University  
Henry Bernard Tillman, Ph.B., 1930, Brown University  
Willsboro, N. Y.  
Dillon, S. C.  
Lewisburg, Pa.  
Buffalo, N. Y.  
Topeka, Kans.  
New Brunswick, N. J.  
Floral Park, N. Y.  
New York, N. Y.  
New York, N. Y.  
Berkeley, Calif.  
Westwood, N. J.  
New York, N. Y.  
New York, N. Y.  
New York, N. Y.  
Ashtabula, Ohio  
New York, N. Y.  
Geneva, N. Y.  
New York, N. Y.  
New York, N. Y.  
New York, N. Y.  
Rutherford, N. J.  
Detroit, Mich.  
New York, N. Y.  
New York, N. Y.  
Coaldale, Pa.  
New Rochelle, N. Y.  
Yonkers, N. Y.  
New York, N. Y.  
Albuquerque, N. M.  
Indiana, Pa.  
Yonkers, N. Y.  
W. Roxbury, Mass.  
West Somerville, Mass.  
New York, N. Y.  
New York, N. Y.  
Albany, N. Y.  
Olean, N. Y.  
Buffalo, N. Y.  
Jamestown, N. Y.  
New Philadelphia, Ohio  
Barre, Vt.  
Fond du Lac, Wis.  
Lexington, Ky.  
Blakely, Ga.  
New York, N. Y.  
New York, N. Y.  
New York, N. Y.  
Allegan, Mich.  
Charleston, W. Va.  
Springfield, Mass.



Harry Goodwin Tounge, Jr., B.S., 1930, University of New Hampshire	Malden, Mass.
Karl Lane Van Horn, A.B., 1927, West Virginia University	Morgantown, W. Va.
William Rankin Ward, Jr., A.B., 1930, Colgate University	Newark, N. J.
LeRoy Hamilton Wardner, A.B., 1931, Cornell University	Saranac Lake, N. Y.
William Patrick Whalen, A.B., 1930, Fordham University	New York, N. Y.
Edward Thomas Yorke, B.S., 1930, University of Notre Dame	Carteret, N. J.

## THIRD YEAR

Maxwell Rufus Berry, Jr., A.B., 1931, Cornell University	Cleveland, Ohio
Perry Sanborn Boynton, Jr., A.B., 1931, Dartmouth College	New York, N. Y.
Cornelius Persen Brink, B.S., 1931, Middlebury College	Philadelphia, Pa.
Walter Fuchsius Bugden, B.S., 1931, Tufts College	New Rochelle, N. Y.
John Heckman Burke, Jr., A.B., 1932, Cornell University	Elmira, N. Y.
Katherine Butler, A.B., 1920, Mt. Holyoke College, A.M., 1926, Columbia University	Canton, Pa.
John Cannon, A.B., 1931, Williams College	Providence, R. I.
Jack Howard Carlquist, A.B., 1931, University of Utah	New York, N. Y.
Henry Ashley Carr, A.B., 1931, Princeton University	Salt Lake City, Utah
Elizabeth Panet Chittenden, A.B., 1931, Vassar College	Philadelphia, Pa.
Orrin Fluhr Crankshaw, A.B., 1932, Dartmouth College	Greenwich, Conn.
Daniel Innes Dann, B.S., 1931, Bucknell University	Lyndhurst, N. J.
Arthur Gerard DeVoe, A.B., 1931, Yale University	New York, N. Y.
Phyllis Amanda Dooley, A.B., 1932, Cornell University	Summit, N. Y.
Marshall Fletcher Driggs, Ph.B., 1931, Yale University	New York, N. Y.
Ralph Howard Edson, B.S., 1931, Princeton University	Washington, D. C.
John Arthur Evans, B.S., 1931, New York University	New York, N. Y.
Herbert Calvin Fisher, A.B., 1932, Dartmouth College	Denver, Colo.
George Granville Flenner, A.B., 1932, Cornell University	Hamilton, Ohio
Floyd Fortuin, A.B., 1932, Columbia University	Paterson, N. J.
Carl Frederick Freese, B.S., 1929, Union College	Baldwin, N. Y.
David Gold, A.B., 1931, Union College	Schenectady, N. Y.
William Henry Hanna, Jr., A.B., 1930, Princeton University	New York, N. Y.
Stephen Howat Harris, Ph.B., 1930, Brown University	Valley Falls, R. I.
Robert Williams Hedges, B.S., 1931, Princeton University	Plainfield, N. J.
Harry Heim Henderson, B.S., 1931, Washington and Jefferson College	Wheeling, W. Va.
Henry Miles Imboden, B.S., 1931, Franklin and Marshall College	Mt. Vernon, N. Y.
Charles Edward Jacobson, B.S., 1931, Trinity College	Perth Amboy, N. J.
Edward Francis Keefe, Jr., B.S., 1931, College of the City of New York	New York, N. Y.
Saul Rosenthal Kelson, A.B., 1930, A.M., 1931, Cornell University	Syracuse, N. Y.
Julius August Klosterman, Ph.D., 1932, New York University	Bogota, N. J.
Alexander Duncan Langmuir, A.B., 1931, Harvard University	Englewood, N. J.
Edwin Vance Lawry, A.B., 1931, Stanford University	Palo Alto, Calif.
John Goeller Leuthner, A.B., 1931, Dartmouth College	New York, N. Y.
Edward Augustus Loeb, B.S., 1931, Rutgers University	Atlantic City, N. J.
Thomas Lowry, A.B., 1931, Princeton University	Minneapolis, Minn.
William Dennis McCarthy, Ph.B., 1931, Brown University	Lonsdale, R. I.
William Theophil Medl, A.B., 1932, Cornell University	New York, N. Y.
Robert Edward Merritt, B.S., 1931, University of Nevada	San Francisco, Cal.
Mary Compton Moss, A.B., 1929, Barnard College	Babylon, N. Y.
Frederick Scoville Nicoll, B.S., 1931, Washington & Jefferson College	Brooklyn, N. Y.
Hailas LaGue Palmer, Ph.B., 1931, Brown University	Providence, R. I.
Edgar Cooper Person, A.B., 1931, University of North Carolina	Pikeville, N. C.
Boris Petroff, A.B., 1931, Cornell University	Upper Montclair, N. J.
Albert Carroll Redmond, B.S., 1931, Hamilton College	New York, N. Y.
Richard Reeser, Jr., A.B., 1931, Cornell University	Columbia, Pa.
Lucien Griggs Rice, Jr., A.B., 1931, University of New Mexico	Albuquerque, N. M.
William Raymond Richards, Jr., A.B., 1931, Cornell University	Medford, Mass.
Herbert Joseph Riekert, A.B., 1932, Cornell University	New York, N. Y.
Samuel Henry Roberts, B.S., 1931, College of the City of New York	New York, N. Y.

- Chauncey Lake Royster, A.B., 1931, University of North Carolina  
 George Goble Sale, B.S., 1931, Bucknell University  
 George Benton Sanders, A.B., 1932, Cornell University  
 Grant Sanger, B.S., 1931, Princeton University  
 Alfred Albert Scharbius, Jr., B.S., 1932, University of Vermont  
 Eleanor Scott, A.B., 1933, University of Wisconsin  
 William Albert Sibrans, B.S., 1931, Fordham University  
 Edward Fuller Stanton, B.S., 1926, University of Maine  
 Charles Greaves Stetson, A.B., 1931, Cornell University  
 James William S. Stewart, B.S., 1931, College of the City of New York  
 Joseph Raymond Strauss, B.S., 1933, University of North Carolina  
 Everett Dornbush Sugarbaker, B.S., 1931, Wheaton College  
 Clarence Benjamin Taft, A.B., 1928, Harvard University  
 James Frederick Thackston, B.S., 1924, University of Tennessee,  
 A.M., 1930, New York University  
 John Howard Thomas, A.B., 1931, Cornell University  
 Howard Townsend, Jr., A.B., 1922, Harvard University  
 Jefferson Weed, A.B., 1929, Union College  
 Charles Hathorn Wheeler, Jr., B.S., 1931, Princeton University  
 Heins Wichman, B.S., 1931, New York University  
 Albert Mansfield Yunich, A.B., 1931, Cornell University
- Chapel Hill, N. C.  
 Lewisburg, Pa.  
 Louisville, Ky.  
 Fishkill, N. Y.  
 Brooklyn, N. Y.  
 Philadelphia, Pa.  
 New York, N. Y.  
 Hartford, Conn.  
 Milford, Conn.  
 New York, N. Y.  
 New York, N. Y.  
 Hawthorne, N. J.  
 New York, N. Y.  
 New York, N. Y.  
 Youngstown, Ohio  
 New York, N. Y.  
 Garden City, N. Y.  
 Upper Montclair, N. J.  
 Floral Park, N. Y.  
 Albany, N. Y.

## SECOND YEAR

- Stanley Sisco Atkins, A.B., 1932, Oberlin College  
 Henry Jennings Babers, Jr., B.S., 1932, University of Florida  
 Donald Nelson Ball, B.S., 1928, Pennsylvania State College, M.S., 1930,  
 Cornell University, M.A., 1932, Harvard University  
 John Nickolas Barbey, B.S., 1932, New York University  
 Henry Kohlman Beling, A.B., 1932, Columbia University  
 Edwin Tremain Bradley, A.B., 1932, Princeton University  
 William Putnam Colvin, A.B., 1933, Columbia University  
 Crispin Cooke, A.B., 1932, Harvard University  
 Robert Allison Cosgrove, A.B., 1933, Cornell University  
 Ralph Stanton Emerson, A.B., 1933, Cornell University  
 Hyman Engelberg, A.B., 1933, Cornell University  
 Leston Edgar Fitch, A.B., 1932, Cornell University  
 Charles Cauldwell Foote, Ph.B., 1931, Yale University  
 Leo David Freyberg, A.B., 1932, Cornell University  
 Joseph Louis Gaster, A.B., 1932, Cornell University  
 Louise Frances Gilman, A.B., 1932, Wellesley College  
 Wilson Harmon Glass, A.B., 1932, Dartmouth College  
 Joseph Paul Gold, A.B., 1932, Cornell University  
 Edward Mason Goodwin, B.S., 1930, College of the City of New York  
 John Francis Griffin, A.B., 1932, Dartmouth College  
 Samuel Pollock Harbison, A.B., 1931, Princeton University  
 Edward Adams Hardy, A.B., 1932, Yale University  
 George Whiting Hebard, A.B., 1932, Williams College  
 Mary Ellen Heiss, A.B., 1932, Wellesley College  
 George Grundy Hollins, Jr., A.B., 1933, Cornell University  
 Herbert Bolster Johnson, Ph.B., 1932, Brown University  
 Marriott Conard Johnson, B.S., 1924, University of Delaware  
 Francis Raymond Keating, Jr., A.B., 1933, Cornell University  
 Henry Augustus Kingsbury, B.S., 1932, Princeton University  
 Edward Frank Kotyuka, A.B., 1932, Cornell University  
 Philip John Kunderman, B.S., 1932, Rutgers University  
 John Samuel LaDue, A.B., 1932, University of Minnesota  
 John Wayne Latcher, A.B., 1932, Cornell University  
 William Caldwell Layton, A.B., 1933, Cornell University  
 Mary Louise Leland, B.S., 1928, University of Minnesota, M.A., 1931,  
 New York University
- Trenton, N. J.  
 Gainesville, Fla.  
 Sunbury, Pa.  
 Yonkers, N. Y.  
 Brooklyn, N. Y.  
 Nyack, N. Y.  
 New York, N. Y.  
 Buffalo, N. Y.  
 Jersey City, N. J.  
 East Orange, N. J.  
 Swan Lake, N. Y.  
 New Paltz, N. Y.  
 New York, N. Y.  
 Granville, N. Y.  
 Brooklyn, N. Y.  
 Wu Chang, China  
 Tulsa, Okla.  
 Hudson, N. Y.  
 Sunnyside, L. I.  
 Brooklyn, N. Y.  
 Sewickley, Pa.  
 Mt. Vernon, N. Y.  
 Scarsdale, N. Y.  
 East Orange, N. J.  
 Montclair, N. J.  
 New York, N. Y.  
 Jackson Heights, N. Y.  
 Philadelphia, Pa.  
 Montclair, N. J.  
 Irvington, N. J.  
 New Brunswick, N. J.  
 Minot, N. D.  
 Oneonta, N. Y.  
 Concordia, Kan.  
 Minneapolis, Minn.

- Kenneth Bedell Lewis, A.B., 1932, Cornell University  
 Evarts Greene Loomis, Jr., B.S., 1932, Haverford College  
 Alvina Loomis, A.B., 1931, Barnard College  
 Ward Beecher Manchester, Jr., A.B., 1933, Cornell University  
 George Grenville Merrill, Jr., A.B., 1932, Princeton University  
 Bernard Constant Meyer, A.B., 1932, Harvard University  
 John Augustus Northridge, A.B., 1933, Cornell University  
 Wilford Bochat Penny, Cornell University\*  
 Francis Otto Pfaff, A.B., 1933, Cornell University  
 Edmund Otto Pichler, A.B., 1932, Amherst College  
 Erwin Emanuel Pietzuch, B.S., 1932, College of the City of New York  
 George Edward Pittinos, Jr., A.B., 1932, Cornell University  
 William Redmond Power, A.B., 1932, Fordham University  
 George Adam Schumacher, B.S., 1932, The Pennsylvania State College  
 James Edward Segraves, B.S., 1932, Lafayette College  
 Donald McKay Shafer, A.B., 1932, Columbia University  
 Eva Virginia Smith, A.B., 1931, Smith College  
 Gordon Alvin Spencer, A.B., 1933, Columbia University  
 Martin Howard Stein, B.S., 1932, College of the City of New York  
 Christopher Burton Stockton, B.S., 1930, University of Nevada  
 Dana Morris Street, B.S., 1932, Haverford College  
 Ira Teicher, B.S., 1932, New York University  
 Alphonse Emanuel Timpanelli, A.B., 1932, Columbia University  
 Gordon Ira Trevett, A.B., 1932, Oberlin College  
 Daniel Gilroy Unangst, B.S., 1929, Rutgers University  
 Samuel Richard Volpe, A.B., 1932, Cornell University  
 Viola Sterne Wertheim, B.S., 1933, New York University  
 Charles Lawrence Whittemore, A.B., 1917, Williams College  
 Saul Wohl, B.S., 1932, College of the City of New York  
 Rockville Centre, L. I.  
 Newark, N. J.  
 New York, N. Y.  
 Batavia, N. Y.  
 Stockbridge, Mass.  
 White Plains, N. Y.  
 Brooklyn, N. Y.  
 Garden City, N. Y.  
 Oneida, N. Y.  
 Webster, Mass.  
 Richmond Hill, N. Y.  
 Port Richmond, N. Y.  
 New York, N. Y.  
 Trenton, N. J.  
 Phillipsburg, N. J.  
 Staten Island, N. Y.  
 Norwalk, Conn.  
 Buffalo, N. Y.  
 Brooklyn, N. Y.  
 Bakersfield, Cal.  
 White Plains, N. Y.  
 Brooklyn, N. Y.  
 Brooklyn, N. Y.  
 Orchard Park, N. Y.  
 Bayonne, N. J.  
 West New York, N. J.  
 Nyack, N. Y.  
 New Canaan, Conn.  
 New York, N. Y.

## FIRST YEAR

- Edwin Laws Anderson, M.E., 1930, Stevens Institute  
 Shepard Gerard Aronson, Cornell University\*  
 William Alexander Barnes, A.B., 1933, College of the City of New York  
 James Frederick Bing, B.S., 1933, Columbia University  
 Henry Seavey Blake, Jr., B.S., 1933, Washburn College  
 James Gelston Boyd, A.B., 1933, Yale University  
 John Hood Branson, Jr., A.B., 1933, Dartmouth College  
 LeRoy Cleaver Brown, B.S., 1933, Hobart College  
 Adele Montgomery Burcher, A.B., 1933, Barnard College  
 Arthur Ilges Chenoweth, A.B., 1933, University of Alabama  
 Janet Cobb, B.S., 1933, Smith College  
 David Aloysius Connors, B.S., 1933, Fordham University  
 Carlton Montgomery Cornell, A.B., 1933, Cornell University  
 Dorothea Deimel, A.B., 1933, Barnard College  
 Donald Thayer Dodge, B.S., 1933, Harvard College  
 Walton Merideth Edwards, A.B., 1933, Stanford University  
 Harold Eliasberg, Cornell University\*  
 Edgar Philip Fleischmann, Cornell University\*  
 Edward James Hehre, A.B., 1933, Cornell University  
 Palaemon Lawrence Hilsman, Cornell University\*  
 Aaron Himmelstein, B.S., 1933, College of the City of New York  
 William Douglas Holden, Cornell University\*  
 Elmer Leaman Horst, B.S., 1933, Pennsylvania State College  
 Elizabeth Page Hosmer, A.B., 1933, Stanford University  
 Patty Julia Hynes, A.B., 1933, University of Minnesota  
 South Orange, N. J.  
 Brooklyn, N. Y.  
 New York  
 New York, N. Y.  
 Topeka, Kansas  
 New Haven, Conn.  
 Bronxville, N. Y.  
 Staten Island, N. Y.  
 Scarsdale, N. Y.  
 Birmingham, Ala.  
 Cleveland, Ohio  
 New York, N. Y.  
 Pocantico Hills, N. Y.  
 Hoboken, N. J.  
 Arlington, Mass.  
 Los Altos, Cal.  
 New York, N. Y.  
 Linden, N. J.  
 Pelham Manor, N. Y.  
 Albany, Georgia  
 New York, N. Y.  
 Pittsfield, Mass.  
 Annville, Pa.  
 Tacoma, Wash.  
 Minneapolis, Minn.

\*Admitted under Clause II.

George Leonard Kauer, Jr., A.B., 1933, New York University	New York, N. Y.
Joseph Taylor Kauer, A.B., 1933, New York University	New York, N. Y.
Francis Conrad Keil, Jr., A.B., 1932, Columbia University	New York, N. Y.
Lola Fayette King, A.B., 1933, Vassar College	Shreveport, La.
Walter Gorringe King, A.B., 1931, Colgate University	Binghamton, N. Y.
Newton Krumdieck, A.B., 1933, Columbia University	New York, N. Y.
Andrew Olavi Laakso, B.S., 1933, Tufts College	Plainfield, Conn.
Harold Lohnaas, A.B., 1933, Columbia University	Brooklyn, N. Y.
Eugene Leonard Lozner, A.B., 1933, Columbia University	New York, N. Y.
Norman William MacLeod, A.B., 1933, Cornell University	New York, N. Y.
Robert Ferdinand McGannon, A.B., 1933, Columbia University	New York, N. Y.
Theodore Carleton Massoth, B.S., Hamilton College	New Rochelle, N. Y.
George Rodney Meneely, B.S., 1933, Princeton University	Garden City, N. Y.
William Earl Moore, B.S. in Chem., 1932, Pennsylvania Military College	College Newark, N. J.
Helen Josephine Neave, A.B., 1933, Mt. Holyoke College	Glen Ridge, N. J.
William Henry Pettus, Jr., B.S., 1933, University of Richmond	Charleston, W. Va.
Donald Burns Read, A.B., 1933, Cornell University	Golden, Col.
Charles Richards, B.S., 1933, New York University	Wolcott, N. Y.
Howard Enos Riffin, A.B., 1931, Yale University	Glen Ridge, N. Y.
Charles Burling Roesch, Cornell University*	Lynbrook, N. Y.
Arthur Merriam Rogers, A.B., 1933, Yale University	Madison, N. J.
Elizabeth Rusch, A.B., 1933, Vassar College	New York, N. Y.
Stuart Sanger, B.S., 1928, Yale University	Fishkill, N. Y.
George Schaefer, B.S., 1933, New York University	Middle Village, L. I.
Herman William Schneider, A.B., 1933, Columbia University	Flushing, N. Y.
Frederick William Schumacher, B.Chem., 1930, Cornell University	Jersey City, N. J.
Arthur Walter Seligman, A.B., 1933, Columbia University	New York, N. Y.
Edwin McRae Shepherd, B.S., 1933, Hampden-Sydney College	Charleston, W. Va.
Irving Ernest Sisman, B.S., 1933, College of the City of New York	Brooklyn, N. Y.
Saul Mouchly Small, B.S., 1933, College of the City of New York	New York, N. Y.
Frederick Preston Titus, A.B., 1933, Johns Hopkins University	Glen Cove, L. I.
Walter Eugene Vogt, B.S., 1933, Lafayette College	Jamaica, N. Y.
Chauncey Prentiss Ward, A.B., 1933, Princeton University	Newark, N. J.
Charles Oscar Warren, Jr., 1927, A.B., Cornell University, M.Sc., 1929, New York University	Brooklyn, N. Y.
Richard Hutchins Whelpley, A.B., 1933, Union College	Rochester, N. Y.
Edwin Thurston Williams, B.S., 1933, Washburn College	Tokepa, Kan.
Jesse Charles Woodward, A.B., 1933, University of California	Payette, Idaho

## FIRST YEAR AT ITHACA

Ruth Barnhart, A.B., 1923, Wells College	Dayton, Ohio
Frank Albert Baumann, A.B., 1933, Cornell University	Binghamton, N. Y.
Abram Salmon Benenson, A.B., 1933, Cornell University	Napanoch, N. Y.
Julian Scott Butterworth, A.B., 1932, Cornell University	Ithaca, N. Y.
Newton David Chapman 3rd, Cornell University*	Port Richmond, N. Y.
Bliss Bartlett Clark, A.B., 1931, Cornell University,	New Britain, Conn.
Walter Eugene Fleischer, B.S., 1929, Cornell University	Albany, N. Y.
William Thomas Foley, A.B., 1933, Columbia University	Flushing, N. Y.
Ira Gore, Cornell University*	Brooklyn, N. Y.
Roger Allen Harvey, B.S., 1933, Hamilton College	Binghamton, N. Y.
Clayton Stanley Hitchins, Cornell University*	Lock Haven, Pa.
Horace Leonard Jones, Jr., A.B., 1932, Cornell University	Ithaca, N. Y.
Ernest Ellsworth Keet, Jr., Cornell University*	Jamaica, N. Y.
Putnam Cornelius Kennedy, Cornell University*	Catskill, N. Y.
Frederick Stephen Kinder, Cornell University*	Staten Island, N. Y.
Henry Belden Marshall, Cornell University*	Horseheads, N. Y.
Hugh Crahan Murphy, B.S., 1933, Cornell University	Eastport, N. Y.

\*Admitted under Clause II.

Monica Noonan, A.B., 1933, Skidmore College  
 William Alfred Paff, A.B., 1933, Cornell University  
 George Parke Rouse, Jr., A.B., 1933, Amherst College  
 Raymond Schwartz, Cornell University\*  
 Henley Sklarsky, Cornell University\*  
 William Howard Sternberg, A.B., 1933, Cornell University  
 Kenneth Aloysius Tyler, Cornell University\*  
 Edward Houghton Vincent, B.S., 1933, Harvard University  
 George Wineburg, Cornell University\*

Rome, N. Y.  
 Easton, Pa.  
 Ridley Park, Pa.  
 Stamford, Conn.  
 Niagara Falls, N. Y.  
 Evergreen, L. I.  
 Ithaca, N. Y.  
 Kalamazoo, Mich.  
 Utica, N. Y.

## SUMMARY

Fourth Year . . . . .	56
Third Year . . . . .	70
Second Year . . . . .	64
First Year (New York). . . . .	62
First Year (Ithaca) . . . . .	26
Total . . . . .	278

\*Admitted under Clause II.





